



Government of India
Ministry of Earth Sciences
India Meteorological Department

Press Release

Date: 18th August, 2023

Time of Issue: 1315 hours IST

Subject: i) Heavy rainfall activity likely over East & adjoining central India during 18th-19th and increase in rainfall over northeast India from 20th August, 2023.
ii) A fresh wet spell of heavy rainfall over Western Himalayan Region and adjoining plains from 20th August.
iii) Subdued rainfall activity likely to continue over rest parts of the country during next 4-5 days.

Weather observed during past 24 hours ending at 0830 hours IST of today (Annexure I):
For Flash Flood Guidance (Annexure III)

Significant Weather features:

- ❖ The western end of the Monsoon Trough runs close to the foothills of the Himalayas and its eastern end runs south of its normal position. The eastern end is likely to shift northwards to the north of its normal position from 21st August.
- ❖ Under the influence of the cyclonic circulation over Northwest Bay of Bengal a Low pressure area formed over the same area at 1430 hrs IST of yesterday, the 17th August, 2023. It now lies over Northwest Bay of Bengal & adjoining West Bengal-north Odisha coasts. It is likely to move west-northwestwards across north Odisha and north Chhattisgarh during next 2-3 days.
- ❖ The Western Disturbance as a trough in middle tropospheric westerlies runs roughly along Long. 70°E to the north of Lat. 32°N.

Weather Forecast and Warnings: (Annexure II)

East India: Light/moderate fairly widespread rainfall with **isolated heavy rainfall** activity very likely over Odisha on 18th & 19th; over Jharkhand, West Bengal & Sikkim on 18th; Bihar and Sub-Himalaya West Bengal & Sikkim on 22nd August, 2023.

Isolated very heavy rainfall also likely over Odisha on 18th August.

Central India: Light/moderate fairly widespread to widespread rainfall/thunderstorm & lightning with **isolated heavy rainfall** activity very likely over Madhya Pradesh, Vidarbha, Chhattisgarh on 18th & 19th August, 2023.

Isolated very heavy rainfall also likely over East Madhya Pradesh, Chhattisgarh & Vidarbha on 18th August, 2023.

Northeast India: Light/moderate scattered to fairly widespread rainfall/thunderstorm & lightning with **isolated heavy rainfall** activity very likely over Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Arunachal Pradesh during 18th-22nd August, 2023.

Northwest India: Light/moderate scattered to fairly widespread rainfall/thunderstorm & lightning with isolated **heavy rainfall** likely over Uttarakhand during next 5 days and over East Uttar Pradesh on 18th & 22nd and Himachal Pradesh & West Uttar Pradesh on 21st & 22nd August, 2023.

Isolated very heavy rainfall also likely over Uttarakhand on 21st & 22nd August, 2023.

South India: Light/moderate scattered to fairly widespread rainfall/thunderstorm & lightning with isolated **heavy rainfall** activity very likely over Coastal Andhra Pradesh on 18th and Telangana on 18th & 19th August.

Hot and humid weather is likely to prevail over Tamil Nadu during next 2 days.

Subdued rainfall activity likely over remaining parts of the country during next 5 days.

For more details kindly refer: https://mausam.ind.gov.in/responsive/all_india_forecast_bulletin.php

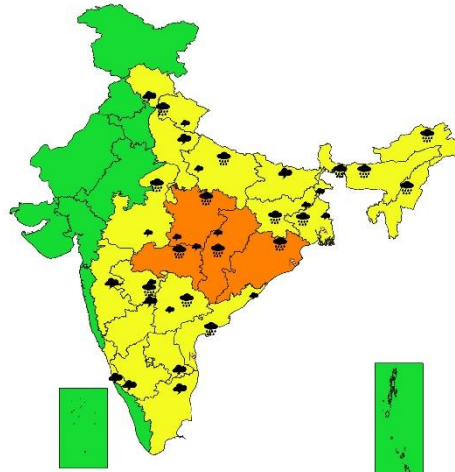
Rainfall Observations: (from 0830 hours IST of yesterday to 0830 hours IST of today, the 18th August, 2023):

- **Heavy to very heavy rainfall** at isolated places over Uttarakhand, Odisha, East Madhya Pradesh, Vidarbha, Jharkhand, Gangetic West Bengal and **heavy rainfall** at isolated places over Chhattisgarh, Tamil Nadu, East Uttar Pradesh and Sikkim.
- **Significant rainfall recorded (in cm):**
 - ✓ **Uttarakhand: Dehradun:** Sahashtradhara-19, Haripur-12, Jollygrant-11, Mohkampur-10, **Pauri Garhwal:** Yamkeshwar-16, Rishikesh (Neelkanth)-14; **Bageshwar:** Sama-8, Loharkhet-7; **Rudraprayag:** Ukhimath-9; **Nainital:** Chorgalia-9; **Tehri Garhwal:** Narendranagar-8;
 - ✓ **Odisha :** Telkoi (dist Keonjhar) 18, Banki (dist Cuttack) 18, Gudvela (dist Bolangir) 14, Pipili (dist Puri) 12, Champua (dist Keonjhar) 12, Deogaon (dist Bolangir) 11, Hatadihi (dist Keonjhar) 10, Phiringia (dist Kandhamal) 10, Madanpur Rampur (dist Kalahandi) 9, Khordha Pto (dist Khurda) 9, Hirakud (dist Sambalpur) 9, Rairangpur (dist Mayurbhanj) 8, Polsara (dist Ganjam) 8, Khajuripada (dist Kandhamal) 8, Nawarangpur Pto (dist Nawarangpur) 8, Saintala (dist Bolangir) 8, Papadahandi (dist Nawarangpur) 8, Jaipatna (dist Kalahandi) 8, Dabugan (dist Nawarangpur) 8, Atabira (dist Bargarh) 8, Bonth (dist Bhadrak) 7, Burla (dist Sambalpur) 7, Athgarh (dist Cuttack) 7, Nawarangpur (dist Nawarangpur) 7, Remuna (dist Balasore) 7, Keonjhar (dist Keonjhar) 7, Karlamunda (dist Kalahandi) 7, Puri (dist Puri) 7, Udala (dist Mayurbhanj) 7, Baliguda (dist Kandhamal) 7, Rajgangpur (dist Sundargarh) 7, Parjang (dist Dhenkanal) 7, Dhamnagar (dist Bhadrak) 7, Nandahandi (dist Nawarangpur) 7, Kirmira (dist Jharsuguda) 7,
 - ✓ **East Madhya Pradesh:** Lakhnadon (dist Seoni) 16, Chand (dist Chindwara) 10, Benibari (dist Anuppur) 9, Tirodi (dist Balaghat) 8, Katangi (dist Balaghat) 8, Chhapara (dist Seoni) 7, Mohkheda (dist Chindwara) 7, Ghansore (dist Seoni) 7, Bichhua (dist Chindwara) 7, Bilaspur (dist Umaria) 7,
 - ✓ **Jharkhand:** Jaridih-14; Basia-10; Kharsema-9;
 - ✓ **Vidarbha:** Bhandara (dist Bhandara) 12, Nagbhir (dist Chandrapur) 9, Desaiganj (dist Gadchiroli) 9, Bramhapuri (dist Chandrapur) 8, Bhamragad (dist Gadchiroli) 8, Lakhandur (dist Bhandara) 7, Mauda (dist Nagpur) 7, Pauni (dist Bhandara) 7, Ahiri (dist Gadchiroli) 7, Kuhi (dist Nagpur) 7, Gadchiroli (dist Gadchiroli) 7, Mulchera (dist Gadchiroli) 7,
 - ✓ **Chhattisgarh:** Labhandih (dist Raipur) 11, Raipur (dist Raipur) 9, Mana-raipur-ap (dist Raipur) 8, Bhopalpatnam (dist Bijapur) 7,
 - ✓ **Gangetic West Bengal:** South 24 Parganas-12, Howrah-8
 - ✓ **East Uttar Pradesh:** Barabanki-9;
 - ✓ **Bihar:** Sheohar-8, Bhagalpur-7, Banka-6
 - ✓ **Sikkim:** East Sikkim-7
 - ✓ **Tamil Nadu:** Chennai-7
 - ✓ **Coastal Andhra Pradesh:** Jiyyamma Valasa (dist Parvathipuram Manyam) 6

Annexure II



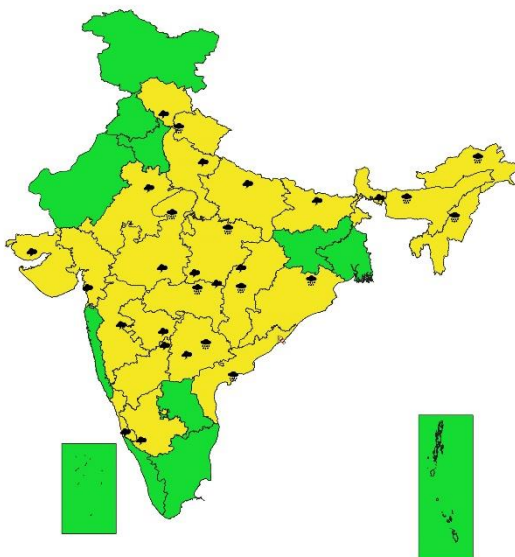
SUBDIVISIONWISE WEATHER WARNING FOR DAY 1
(18-8-2023)



Subdivision Warning Heavy Rain Heavy Snow Thunderstorms & Lightning Hailstorm	Dust Storm Strong Surface Winds Heat Wave Cold wave Fog Subdivision color	WATCH (BE UPDATED) ALERT (BE PREPARED) WARNING (TAKE ACTION)
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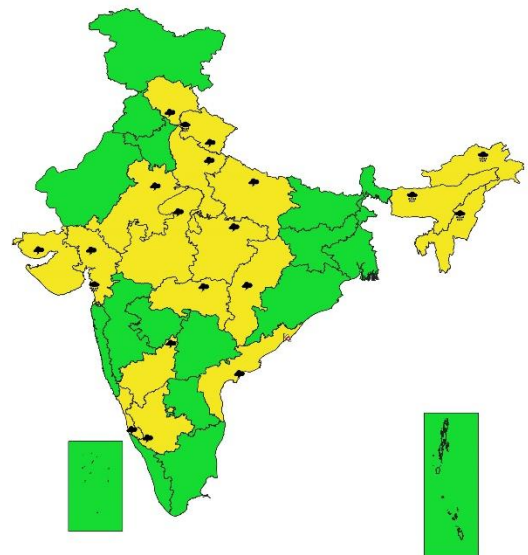
SUBDIVISIONWISE WEATHER WARNING FOR DAY 2
(19-8-2023)



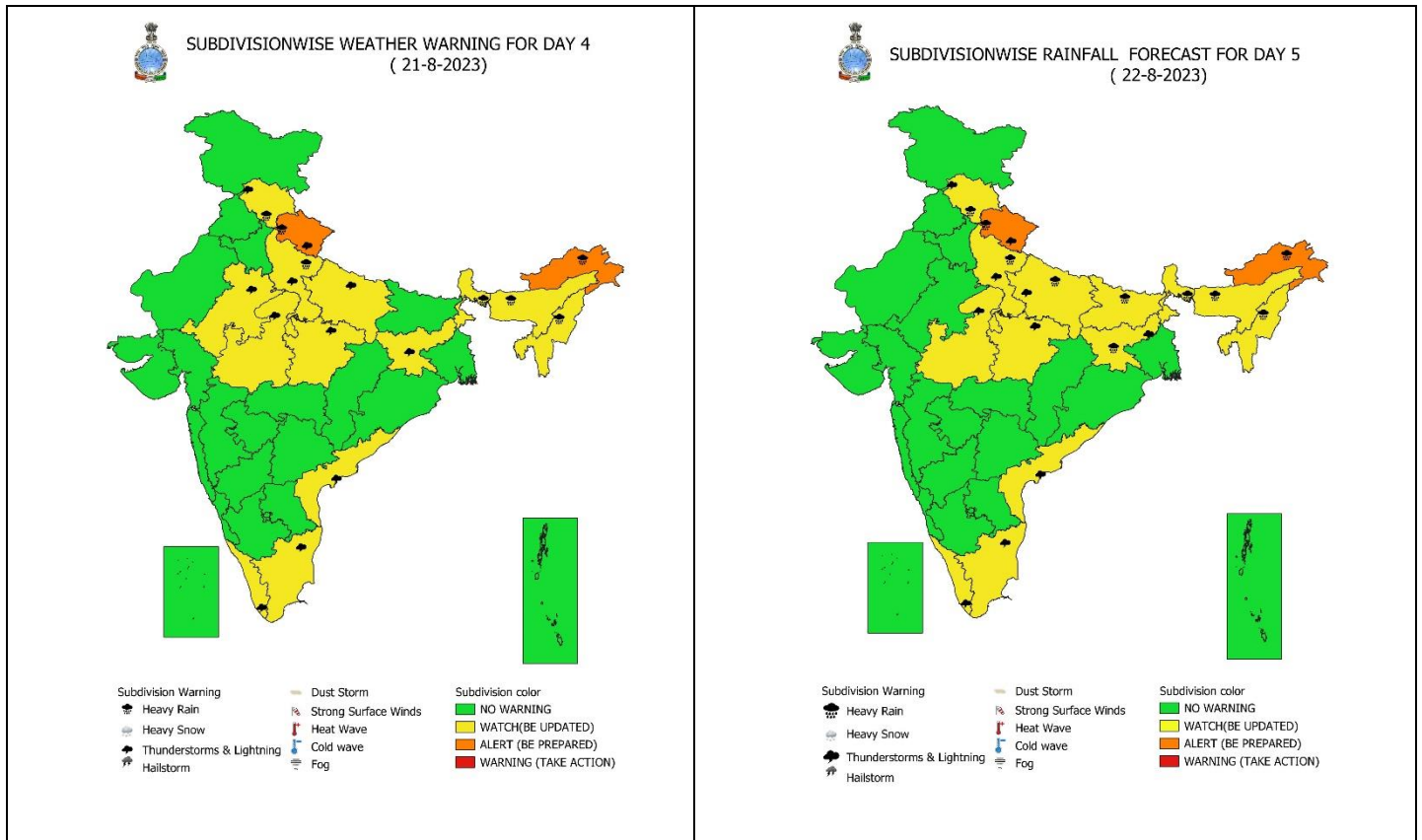
Subdivision Warning Heavy Rain Heavy Snow Thunderstorms & Lightning Hailstorm	Dust Storm Strong Surface Winds Heat Wave Cold wave Fog Subdivision color	NO WARNING WATCH (BE UPDATED) ALERT (BE PREPARED) WARNING (TAKE ACTION)
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SUBDIVISIONWISE WEATHER WARNING FOR DAY 3
(20-8-2023)



Subdivision Warning Heavy Rain Heavy Snow Thunderstorms & Lightning Hailstorm	Dust Storm Strong Surface Winds Heat Wave Cold wave Fog Subdivision color	NO WARNING WATCH (BE UPDATED) ALERT (BE PREPARED) WARNING (TAKE ACTION)
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Impact & Action Suggested due to very heavy rainfall over:

1. Odisha, Chhattisgarh, Vidarbha, East Madhya Pradesh on 18th August
2. Uttarakhand and Arunachal Pradesh on 21st & 22nd August

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

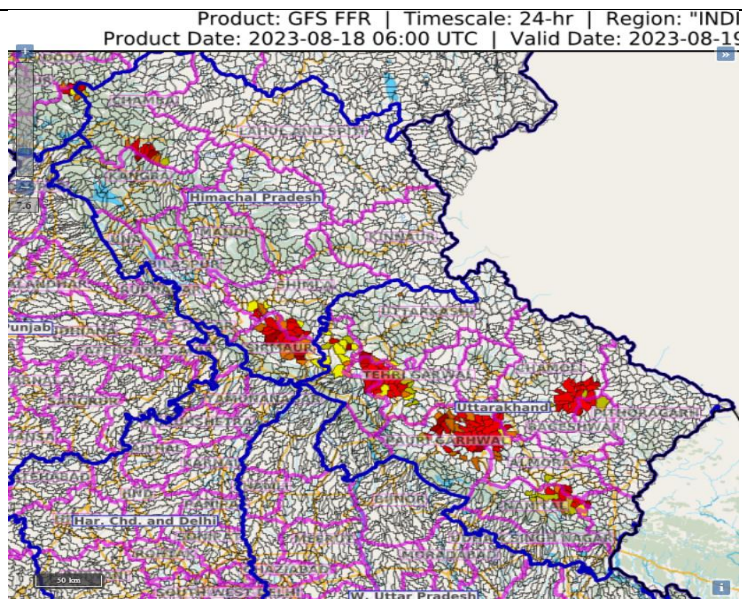
- ❖ Check for traffic congestion on your route before leaving for your destination.
- ❖ Follow any traffic advisories that are issued in this regard.
- ❖ Avoid going to areas that face the water logging problems often.
- ❖ Avoid staying in vulnerable structure.

Annexure III

24 hours Outlook for the Flash Flood Risk (FFR) till 1130 IST of 19-08-2023 :

Low to Moderate flash flood risk likely over few watersheds & neighbourhoods of **Himachal Pradesh** and **Uttarakhand** Met Sub-divisions during next 24 hours.

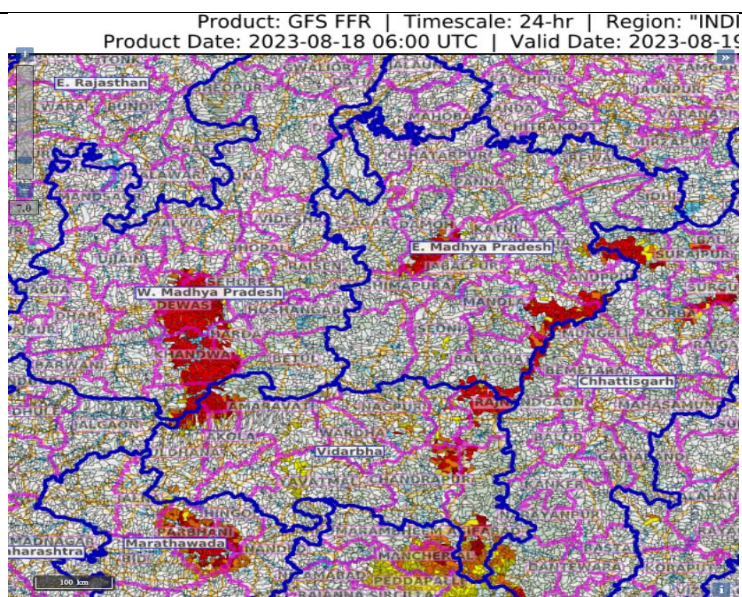
Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over AoC as shown in map due to expected rainfall occurrence in next 24 hours.



24 hours Outlook for the Flash Flood Risk (FFR) till 1130 IST of 19-08-2023 :

Low to Moderate flash flood risk likely over few watersheds & neighbourhoods of **East Madhya Pradesh**, **Vidarbha** and **West Madhya Pradesh** Met Sub-divisions during next 24 hours.














Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over AoC as shown in map due to expected rainfall occurrence in next 24 hours.




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; **∴** 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)