



Government of India
Ministry of Earth Sciences
India Meteorological Department

Press Release.
Date: 12th August, 2023
Time of Issue: 1315 hours IST

Subject: i) Heavy to very heavy rainfall likely to continue over Uttarakhand during next five days and Himachal Pradesh, Bihar, Sub Himalayan West Bengal, Sikkim during next two days with extremely heavy falls over Uttarakhand on 13th & 14th August.
ii) Isolated heavy to very heavy rainfall likely to continue over Arunachal Pradesh and Assam & Meghalaya on 12th and decrease thereafter.
iii) Subdued rainfall activity likely over rest parts of the country during next 4-5 days and likely revival of active Monsoon conditions thereafter.

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 Monsoon Trough lies north of its normal position. It is likely to continue to remain so during next 4-5 days and gradual shifts southwards towards its normal position thereafter.
- ❖ A trough runs from Sub-Himalaya West Bengal & Sikkim to Northwest Bay of Bengal in lower & middle tropospheric levels.

Weather Forecast and Warnings: (Annexure II)

Northwest India: Light/moderate fairly widespread to widespread rainfall with isolated **heavy rainfall** likely over Himachal Pradesh during 12th to 14th; over Uttarakhand during 12th to 16th; over Punjab & Haryana on 13th & 14th; over northwest Uttar Pradesh on 13th & 14th; over East Uttar Pradesh on 13th August, 2023.

Isolated **very heavy rainfall** activity very likely over Himachal Pradesh on 12th & 13th; over Uttarakhand during 12th-16th with Isolated **extremely heavy falls** also likely over Uttarakhand on 13th & 14th August.

East India: Light/moderate fairly widespread to widespread rainfall with **isolated heavy rainfall** activity very likely over Sub-Himalayan West Bengal & Sikkim during 12th-14th August; over Gangetic West Bengal on 12th, 13th & 16th; over Bihar on 12th & 13th; over Odisha on 15th & 16th and over Jharkhand on 16th August; over Andaman & Nicobar Islands during 14th -16th August. Isolated **very heavy rainfall** likely over Sub-Himalaya West Bengal & Sikkim on 12th & 13th August.

Northeast India: Light/moderate fairly widespread to widespread rainfall with isolated **heavy rainfall** activity very likely over Arunachal Pradesh and Assam & Meghalaya during 12th to 16th and over Nagaland, Manipur, Mizoram & Tripura on 12th, 15th & 16th August. Isolated **very heavy rainfall** over Arunachal Pradesh and Assam & Meghalaya on 12th August.

Central, West & South India: Light/moderate isolated to scattered rainfall with isolated **heavy rainfall** activity very likely over Tamil Nadu on 12th August.

Subdued rainfall activity likely over remaining parts of these regions during next 7 days.

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

Annexure I

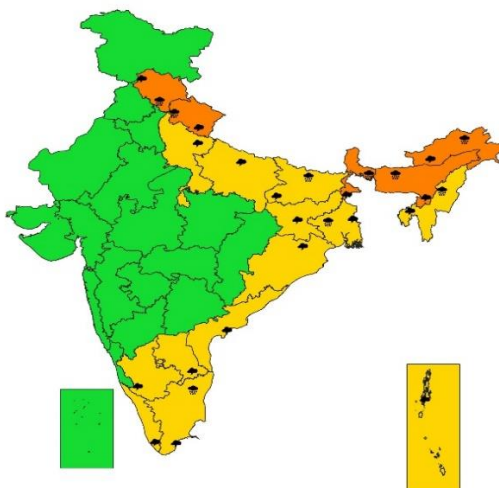
Rainfall Observations: (from 0830 hours IST of yesterday to 0830 hours IST of today, the 12th August, 2023):

- **Heavy to very heavy rainfall** at isolated places over Tamil Nadu, Puducherry & Karaikal, West Bengal & Sikkim and Assam & Meghalaya and **heavy rainfall** at isolated places over Himachal Pradesh, Uttarakhand, Odisha and Andaman & Nicobar Islands
- **Significant rainfall recorded (in cm):**
 - ✓ **Himachal Pradesh:** Palampur (dist Kangra) 10, Sujampur Tira (dist Hamirpur) 9, Mandi (dist Mandi) 9, Bijahi (dist Mandi) 9, Dharmasala (dist Kangra) 9, Kangra Aero (dist Kangra) 8, Jogindarnagar (dist Mandi) 8, Gohar (dist Mandi) 7, Kasauli (dist Solan) 7, Sundarnagar (dist Mandi) 7, Naina Davi (dist Bilaspur) 7;
 - ✓ **Uttarakhand:** Narendranagar 9 Dharchula 7 Munsiyari 6;
 - ✓ **Assam & Meghalaya:** Sohra Arg (Dist. East Khasi Hills) 15, Sohra Rkm (Dist. East Khasi Hills) 13, Sohra (Dist. East Khasi Hills) 12, Maswsynram (Dist. East Khasi Hills) 11, Pynursla (Dist. East Khasi Hills) 11, Dhekiajuli (Dist. Sonitpur) 11, Shella (Dist. East Khasi Hills) 08, Tinsukia (Dist. Tinsukia) 07, Kakopather Arg (Dist. Tinsukia) 07.
 - ✓ **Sub-Himalaya West Bengal & Sikkim:** Sevoke : 14; Chel : 11; Ghish : 9; Samsing, Gazoledoba, Majhian, Matigara, Rongo : 7; Bagdogra, Champasari : 6;
 - ✓ **Odisha:** Nawana (dist Mayurbhanj) 11, Burla (dist Sambalpur) 8, Gop (dist Puri) 6, Kirmira (dist Jharsuguda) 6,
 - ✓ **Andaman & Nicobar Islands:** Long Island : 7
 - ✓ **Tamil Nadu:** Pudukottai (dist Pudukkottai) 12, Pattukottai (dist Thanjavur) 11, Thaniamangalam (dist Madurai), Singampunari (dist Sivaganga) 10 each, Aranmanaipudur (dist Theni) 9, Thiruthuraipoondi (dist Tiruvarur), Sathiar (dist Madurai), Attur (dist Salem), Vadipatti (dist Madurai) 8 each, Alangudi (dist Pudukkottai), Basl Manampoondi (dist Villupuram), Pulipatti (dist Madurai), Melur (dist Madurai), Lakkur (dist Cuddalore), Andipatti (dist Theni), Dindigul (dist Dindigul) 7 each, Adirampatnam (dist Thanjavur), Suthamalli Dam (dist Ariyalur), Pelandurai (dist Cuddalore), Tindivanam (dist Villupuram), Thiruvaidaimaruthur (dist Thanjavur), Thaluthalai (dist Perambalur), Sivakasi (dist Virudhunagar), Natham (dist Dindigul), Srivilliputhur (dist Virudhunagar), Gangavalli (dist Salem), Chettikulam (dist Perambalur), Veeraganoor (dist Salem), Vendasandur (dist Dindigul), Tobacco Station Vdr (dist Dindigul), Andipatti (dist Madurai), Glenmorgan (dist Nilgiris), Adirampatnam AWS (dist Thanjavur), Danishpet (dist Salem) 6 each,
 - ✓ **Jharkhand:** Dumka-7;
 - ✓ **Bihar:** Nirmali(Supaul)-8, Ghanshyampur(Darbhang)-7
 - ✓ **Gangetic West Bengal:** Shyambati : 13; Deocha Barrage : 9; Digba :

Annexure II



SUBDIVISIONWISE WEATHER WARNING FOR DAY 1
(12-8-2023)

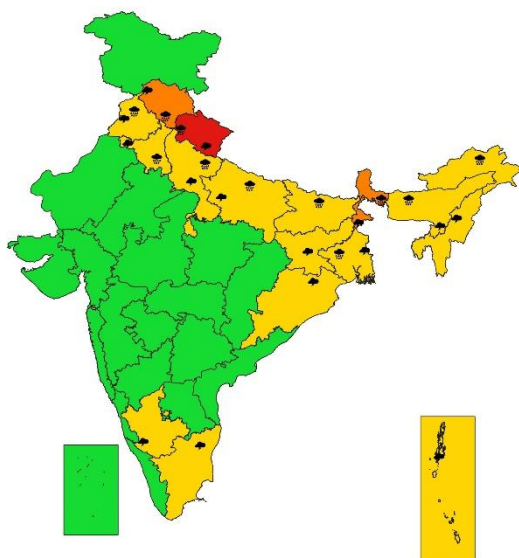


Subdivision Warning
 Heavy Rain
 Heavy Snow
 Thunderstorms & Lightning
 Hailstorm
 Dust Storm
 Strong Surface Winds
 Heat Wave
 Cold wave
 Fog

Subdivision color
 NO WARNING
 WATCH (BE UPDATED)
 ALERT (BE PREPARED)
 WARNING (TAKE ACTION)



SUBDIVISIONWISE WEATHER WARNING FOR DAY 2
(13-8-2023)

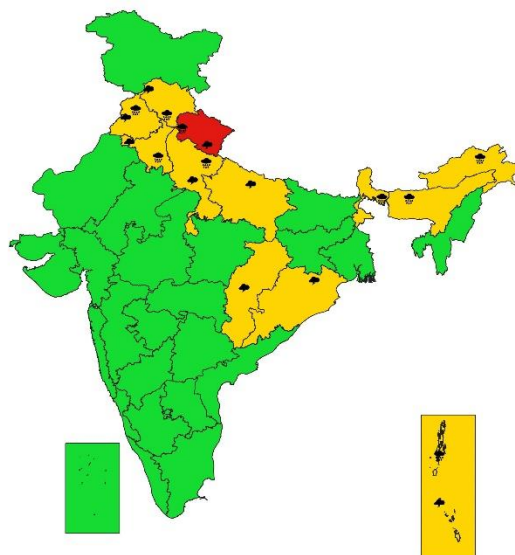


Subdivision Warning
 Heavy Rain
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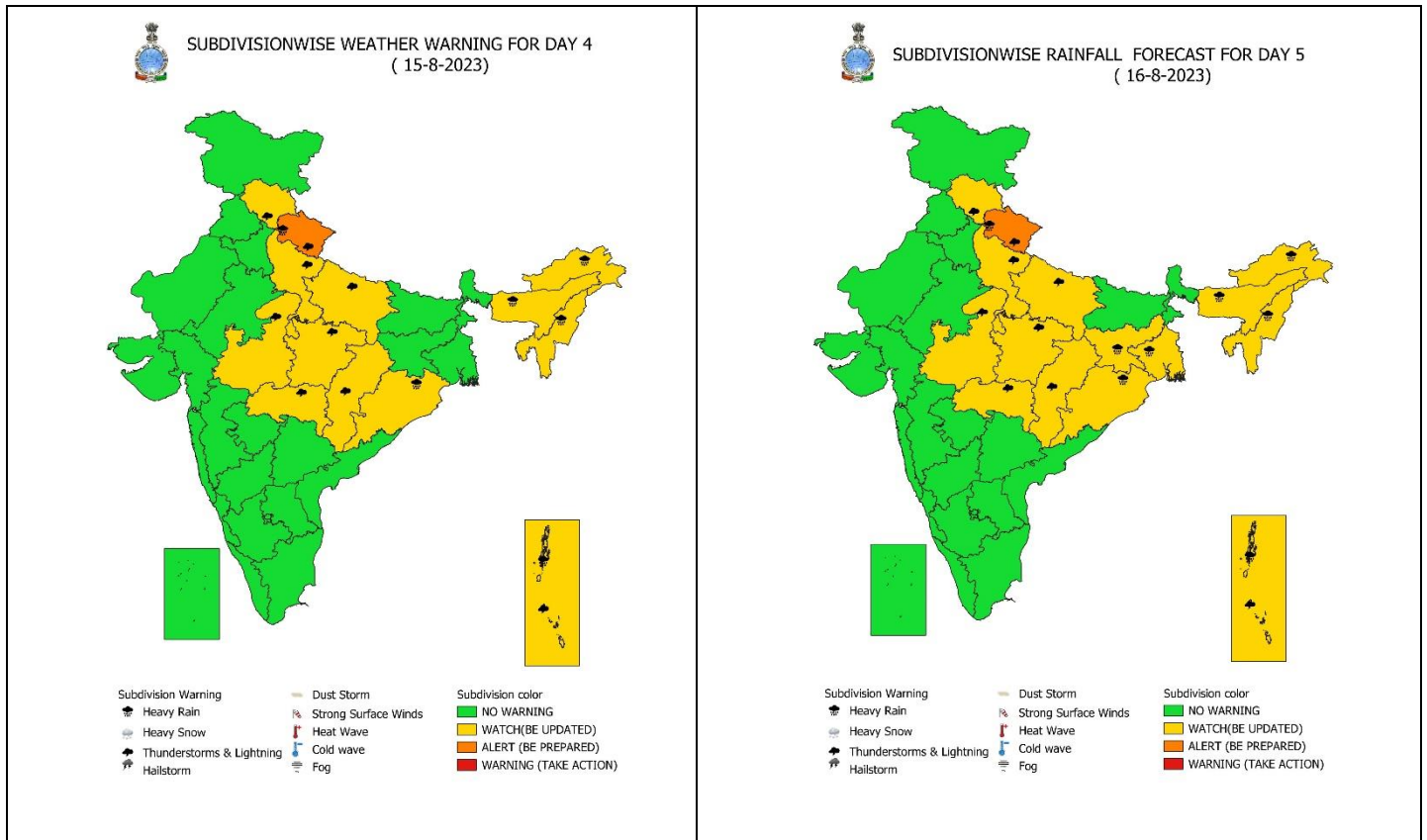


SUBDIVISIONWISE WEATHER WARNING FOR DAY 3
(14-8-2023)



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)



Impact & Action Suggested due to very heavy/extremely heavy rainfall over:

1. Uttarakhand during 12th-16th August;
2. Himachal Pradesh on 12th & 13th August;
3. Sub-Himalaya West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya on 12th 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 kutchra 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.

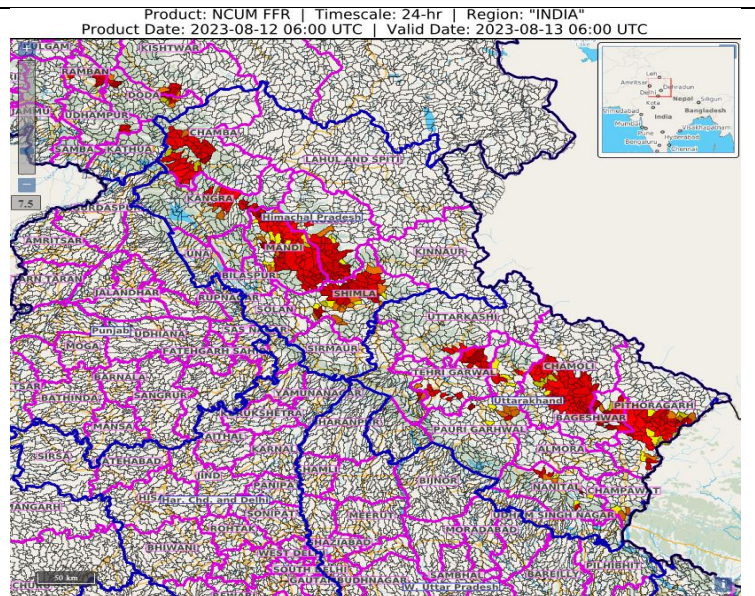
- ❖ Follow any traffic advisories that are issued in this regard.
- ❖ Avoid going to areas that face the water logging problems often.
- ❖ Avoid staying in vulnerable structure.

Annexure III

24 hours Outlook for the Flash Flood Risk (FFR) till 1130 IST of 13-08-2023 :

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.
















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)