

Government of India Ministry of Earth Sciences India Meteorological Department

Press Release Date: 02nd August, 2023 Time of Issue: 1400 hours IST

Subject: i) Deep Depression over Gangetic West Bengal and it is likely to move westnorthwestwards across Jharkhand

ii) Exceptionally heavy rainfall recorded over Odisha (Boudhgarh 39 cm) during past 24 hours.

(iii) Isolated heavy to very heavy rainfall with extremely heavy falls likely over Odisha, Chhattisgarh today and over Madhya Pradesh on 02nd & 03rd August.

iv) Isolated heavy to very heavy rainfall likely over Northwest India during 03rd-06th August.

v) Subdued rainfall activity would continue over Peninsular India during next 5 days.

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

- Deep Depression over Northeast Bay of Bengal off Bangladesh coast: Yesterday's Deep Depression over northeast Bay of Bengal off Bangladesh coast now lies over Gangetic West Bengal at 0830 hours IST of 02nd August, 2023 near latitude 23.2°N and longitude 87.1°E, close to Bankura (West Bengal), about 70 km east-southeast of Purulia (West Bengal) and 180 km east of Ranchi. It is likely to move west-northwestwards across Jharkhand and weaken gradually into a Depression during next 12 hours and into a Well Marked Low Pressure Area during subsequent 24 hours.
- The Western end of the Monsoon Trough at mean sea level runs close to foothills of Himalayas and Eastern end lies to the south of its normal position. Western end of the Monsoon trough likely to shift southwards from 3rd August.

Weather Forecast and Warning associated with Deep Depression (Annexure II): (i) Rainfall warning

Odisha: Light to moderate rainfall at most places with isolated heavy to very heavy rainfall over Odisha and isolated extremely heavy rainfall also likely over north Odisha on 2nd August. Heavy rainfall at isolated places is likely on 3rd August.

Gangetic West Bengal: Light to moderate rainfall at most places with isolated heavy rainfall over Gangetic West Bengal on 2nd August.

Jharkhand: Light to moderate rainfall at most places with isolated heavy to very heavy rainfall on 2nd August.

Bihar: Light to moderate rainfall at most places with isolated heavy rainfall on 2nd August.

Chattisgarh: Light to moderate rainfall at most places with isolated heavy to very heavy rainfall over Chhattisgarh on 2nd & 3rd August and extremely heavy rainfall over north Chhattisgarh on 2nd August. Heavy rainfall at isolated places is likely on 4th August.

East Madhya Pradesh: Light to moderate rainfall at most places with isolated heavy to very heavy rainfall during 2nd to 4th and extremely heavy rainfall on 2nd & 3rd August. Heavy rainfall at isolated places is likely on 5th August.

West Madhya Pradesh: Light to moderate rainfall at most places with isolated heavy to very heavy rainfall on 2nd & 3rd and extremely heavy rainfall on 3rd August. Heavy rainfall at isolated places is likely on 4th August.

East Uttar Pradesh: Light to moderate rainfall at most places with isolated heavy to very heavy rainfall on 2nd & 3rd August and heavy rainfall during 4th to 6th August.

(ii) Wind warning

Squally wind speed reaching 45-55 kmph gusting to 65 kmph is prevailing over North Bay of Bengal and adjoining Bangladesh-West Bengal coasts and it is likely to become 35-45 kmph gusting to 55 kmph from afternoon to night of today, the 2nd August. It is likely to decrease gradually thereafter.

Squally wind speed reaching 40-50 kmph gusting to 60 kmph is likely to prevail along & off North Odisha coast till today afternoon and it is likely to become 35-45 kmph gusting to 55 kmph from afternoon of today, the 2nd August. It is likely to decrease gradually thereafter.

(iii) Sea Condition: Rough to very rough sea condition very is prevailing over North Bay of Bengal and adjoining Bangladesh-West Bengal-North Odisha coasts and it is likely to become rough to moderate sea conditions from afternoon of today, the 2nd August. It is likely to improve gradually thereafter.

(iv) Fishermen Warning

Fishermen are advised not to venture into North Bay of Bengal and adjoining Bangladesh-West Bengal-North Odisha coasts till afternoon of today, the 2nd August.

Weather Forecast and Warning for remaining parts of the country:

Northwest India: Light/moderate scattered to fairly widespread rainfall with isolated **heavy rainfall** is very likely over Uttarakhand, Uttar Pradesh during 02nd-06th August; Himachal Pradesh 03rd-06th; Punjab, Haryana and East Rajasthan during 03rd-05th August, 2023.

Isolated very heavy rainfall also likely over Uttarakhand during 02nd-05th; East Uttar Pradesh on 02nd; West Uttar Pradesh on 02nd & 03rd and over Himachal Pradesh on 04th & 05th August.

Northeast India: Light/moderate fairly widespread to widespread rainfall with **isolated heavy rainfall** very likely over Arunachal Pradesh, Assam & Meghalaya during next 5 days and over Tripura today.

West India: Light/moderate fairly widespread to widespread rainfall with **isolated heavy rainfall** very likely to continue over Konkan & Goa and ghat areas of Madhya Maharashtra during next 4 days with possibility of **very heavy rainfall** over Konkan & Goa on 03rd and Madhya Maharashtra on 02nd & 03rd August.

South India: Light/moderate widespread rainfall with **isolated heavy rainfall** very likely over Coastal Karnataka during 02nd-04th August and subdued rainfall activity over the remaining region.

For more details kindly refer:

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

Impact & Action Suggested due to very heavy/extremely heavy rainfall over: Odisha, Jharkhand, Gangetic West Bengal on 02nd August Madhya Pradesh, Chhattisgarh on 02nd & 03rd August Uttarakhand during 02nd-05th, Himachal Pradesh on 04th & 05th 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 kutcha 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.

Rainfall Observations: (from 0830 hours IST of yesterday to 0830 hours IST of today, the 02nd August, 2023):

Exceptionally heavy rainfall over Boudhgarh (dist Boudhgarh) 39 cm in Odisha; Heavy to very heavy rainfall at isolated places over Chhattisgarh, Uttarakhand, Madhya Pradesh, Jharkhand, West Bengal & Sikkim and heavy rainfall at isolated places over Konkan, Madhya Maharashtra, East Uttar Pradesh, Assam & Meghalaya and Bihar.

Significant rainfall recorded (in cm):

- ✓ **Odisha:** Boudhgarh (dist Boudhgarh) 39, Jujumura (dist Sambalpur) 36, Rairakhol (dist Sambalpur) 35, Karanjia (dist Mayurbhanj) 30, Sharpada (dist Keonjhargarh) 28, Birmaharajpur (dist Sonepur) 27, Thakurmunda (dist Mayurbhanj) 26, Ullunda (dist Sonepur) 26, Athmalik (dist Angul) 23, Rajkishorenagar (dist Angul) 23, Binika (dist Sonepur) 23, Agalpur (dist Bolangir) 22, Phiringia (dist Kandhamal) 22, Khairamal (dist Boudhgarh) 22, Joshipur (dist Mayurbhanj) 22, Sonepur (dist Sonepur) 21, Dunguripalli (dist Sonepur) 21, Raruana (dist Mayurbhanj) 21, Baliguda (dist Kandhamal) 21, Sukruli (dist Mayurbhanj) 21, K Nuagaon (dist Kandhamal) 21, Phulbani (dist Kandhamal) 21, Salebhatta (dist Bolangir) 20, Madanpur Rampur (dist Kalahandi) 19, Kirmira (dist Jharsuguda) 19, Kolabira (dist Jharsuguda) 19, Kusumi (dist Mayurbhanj) 19, Telkoi (dist Keonjhargarh) 19, Khaira (dist Balasore) 19, Bijepur (dist Bargarh) 19, Jamda (dist Mayurbhanj) 19, Tensa (dist Sundargarh) 17, Bolangir (dist Bolangir) 17, Swam-patna (dist Keonjhargarh) 17, Gaisilet (dist Bargarh) 17, Ambadola (dist Rayagada) 17, Kantamal (dist Boudhgarh) 16, Pallahara (dist Angul) 16, Oupada (dist Balasore) 16, Bangamunda (dist Bolangir) 16, Laikera (dist Jharsuguda) 16, Tarva (dist Sonepur) 16, Belgaon (dist Bolangir) 15, Keonjhargarh (dist Keonjhargarh) 15, Angul (dist Angul) 15, Kaptipada (dist Mayurbhanj) 15, Barpalli (dist Bargarh) 15, Daitari (dist Keonjhargarh) 15, Talcher (dist Angul) 15, Chakapad (dist Kandhamal) 15, Banspal (dist Keonjhargarh) 15, Bhuban (dist Dhenkanal) 15, Bhawanipatna (dist Kalahandi) 15, Bahalda (dist Mayurbhanj) 15, Soro (dist Balasore) 14, Harabhanga (dist Boudhgarh) 14, Naktideul (dist Sambalpur) 14, Komna (dist Nawapara) 14, Balasore (dist Balasore) 14, Kotagarh (dist Kandhamal) 14, Bhograi (dist Balasore) 13, Khajuripada (dist Kandhamal) 13, Chendipada (dist Angul) 13, Nh5 Gobindpur (dist Balasore) 13, Sohela (dist Bargarh) 13, Tikabali (dist Kandhamal) 13, Hindol (dist Dhenkanal) 13, Rajghat (dist Balasore) 13, Gudvela (dist Bolangir) 13, Kantapada (dist Cuttack) 12, Loisingha (dist Bolangir) 12, Narla (dist Kalahandi) 12, Ghatagaon (dist Keonjhargarh) 12, Basudevpur (dist Bhadrak) 12, Padampur (dist Bargarh) 12, Padmapur (dist Rayagada) 12, Raikia (dist Kandhamal) 12, Danagadi (dist Jajpur) 12, Joda (dist Keonjhargarh) 12, Lanjigarh (dist Kalahandi) 12,
- Chhattisgarh: Kusmi (dist Balrampur) 18, Rajpur (dist Balrampur) 9, Ambikapur (dist Surguja) 9, Pratappur (dist Surajpur) 9, Saraipali (dist Mahasamund) 9, Shankargarh (dist Balrampur) 9, Basana (dist Mahasamund) 9, Pithora (dist Mahasamund) 8, Premnagar (dist Surajpur) 8, Janakpur (dist Koriya) 7, Arang (dist Raipur) 7,
- ✓ East Madhya Pradesh: Jabalpur-aws (dist Jabalpur) 17, Chandia (dist Umaria) 15, Umariaaws (dist Umaria) 15, Kumdam (dist Jabalpur) 14, Sihora (dist Jabalpur) 14, Bijadandi (dist Mandla) 13, Majholi (dist Jabalpur) 13, Badwara (dist Katni) 11, Gohparu (dist Shahdol) 10, Karkeli (dist Umaria) 10, Mehadwani (dist Dindori) 10, Mohgaon (dist Mandla) 10, Mauganj

(dist Rewa) 8, Patan (dist Jabalpur) 8, Semariya (dist Rewa) 8, Beohari (dist Shahdol) 7, Mawai (dist Mandla) 7, Panagar (dist Jabalpur) 7, Mandla (dist Mandla) 7,

- ✓ Sub-Himalaya West Bengal & Sikkim: Rongo-17, Kalingpong-14, Kumargram-9, Alipurduar-8, Falakata, Pedong-7 each
- ✓ Jharkhand: Majhgaon-15; Palganj-14; Manjhari-12; Chakulia-11; Noamundi-9; Atgamharia, Nala-8 each; Bargar, Ghatsila, Tonto Sadar, Chaibasa, Jaganathpur bau kvk aws, Bhandaria, Deoghar, Dhalbhumgarh-7 each
- ✓ Gangetic West Bengal: Durgachack-16, Euluberia-11, Diamond Harbour-10, Canning, Bankura-9 each, Alipore, Digha-8 each, Durgapur-7
- ✓ Uttarakhand: Champawat-16, Tanakpur-9, Bastia-8, Bageshwar: Kapkot-10, Loharkhet, Sama-8 each, Nainital: Ramnagar-9, U S Nagar: Khatima-8
- ✓ West Madhya Pradesh: Satwas (dist Dewas) 12,
- ✓ Madhya Maharashtra: Mahabaleshwar- Imd Obsy (dist Satara) 11, Gaganbawada (dist Kolhapur) 9,
- ✓ Assam & Meghalaya: Panbari (dist Chirang) 8, Bilasipara Arg (dist Dhubri) 7,
- ✓ East Uttar Pradesh: Banda-8
- ✓ **Bihar:** Bhabua, Madhepura, Jamui-8 each, Gaya, Rohtash-7 each
- ✓ Konkan & Goa: Rajapur (dist Ratnagiri) 7,
- Obsy: Observatory; AWS: Automatic Weather Station; dist: District: NH: National Highway;
 KVK: Krishi Vigyan Kendra; DVC: Damodar Valley Corporation

Annexure II





Annexure III



	Product: IFFT Timescale: 06-hr Region: "INDIA"
Observed Flash Flood Threat (IFFT) till	Product Date: 2023-08-02 06:00 UTC Valid Date: 2023-08-02 06:00 UTC
1130 IST of 02-08-2023 :	Uterabland Biographic Control of
Moderate flash flood threat observed	and the second
over few watersheds & neighbourhoods	
of following Met Sub-divisions during	and the second
last 6 hours.	
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Uttarakhand - Almora, Champawat,	We have research to the second s
Nanital and Pauri Garhwal districts.	anniha
Observed Flash Flood Threat (IFFT) till	Product: IFFT Timescale: 06-hr Region: "INDIA" Product Date: 2023-08-02 06:00 UTC Valid Date: 2023-08-02 06:00 UTC
1130 IST of 02-08-2023 :	
Moderate flash flood threat observed	
over few watersheds & neighbourhoods	A A A A A A A A A A A A A A A A A A A
of following Met Sub-divisions during	ana Angin Banangan Banan Banangan Banangan Banangan Banangan Banan
last 6 hours.	
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Odisha - Anugul, Baleshwar, Baragarh,	
Bauda, Deogarh, Jajapur, Kendujhar,	
Mayurbhanj and Subarnapur districts.	
Observed Flash Flood Threat (IFFT) till	Product: IFFT Timescale: 06-hr Region: "INDIA" Product Date: 2023-08-02 06:00 UTC Valid Date: 2023-08-02 06:00 UTC
1130 IST of 02-08-2023 :	
Moderate flash flood threat observed	
over few watersheds & neighbourhoods	
of following Met Sub-divisions during	
last 6 hours.	
Chhatticgarh Karaa and Surgian	
Chhattisgarh - Korea and Surajpur	
districts.	
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East Madhya Pradesh - Anuppur, Damoh, Dindori and Katni districts.

24 hours Outlook for the Flash Flood Risk (FFR) till 1130 IST of 03-08-2023 :

Moderate flash flood risk likely over fewwatersheds& neighbourhoodsUttarakhandMetSub-divisionsduringnext24hours.

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 03-08-2023 :

Moderate flash flood risk likely over few watersheds & neighbourhoods of East Uttar Pradesh, South-Eastern part of West Uttar Pradesh, North Chhattisgarh, East Madhya Pradesh, North-West Odisha and adjoining Jharkhand 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: >204.4 mm.
- ◆ **Obsy:** Observatory; **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)		

	Sub	division Warning	-	Dust Storm	Subdivision color
	•	Heavy Rain	•	Strong Surface Winds	NO WARNING
	-	Heavy Snow] *	Heat Wave	WATCH(BE UPDATED)
Thunderstorms & Lightning Cold wave	-	Thunderstorms & Lightning	5	Cold wave	ALERT (BE PREPARED)
Hailstorm 🗮 Fog WARNING (TAKE ACTION	77	5 5		Fog	WARNING (TAKE ACTION)

Probabilistic Forecast		
Terms	Probability of Occurrence (%)	
Unlikely	< 25	
Likely	25 - 50	
Very Likely	50 - 75	
Most Likely	> 75	