

India Meteorological Department

(Ministry of Earth Sciences)

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Sub: Depression over northeast Bay of Bengal close to Bangladesh coast

The well marked low pressure area over northeast Bay of Bengal and adjoining southeast Bangladesh coast moved west-northwestwards, concentrated into a depression and lay centred at 1730 hrs IST of today, the 13th September 2024, over northeast Bay of Bengal close to Bangladesh coast, near latitude 22.0° N and longitude 90.8° E, about 60 km southeast of Patuakhali (Bangladesh), 220 km east of Canning (West Bengal) and 260 km east-southeast of Kolkata (West Bengal).

Continuing to move west-northwestwards, it will cross Bangladesh coast near Patuakhali tonight. Thereafter, it will continue to move west-northwestwards across coastal Bangladesh and Gangetic West Bengal during subsequent next 48 hours

Forecast track and intensity are given in the following table:

Date/Time (IST)	Position (Lat. °N/ Long. °E)	Maximum Sustained Surface Wind Speed (Kmph)	Category Of Cyclonic Disturbance
13.09.24/1730	22.0/90.8	45-55 gusting to 65	Depression
13.09.24/2330	22.1/90.2	45-55 gusting to 65	Depression
14.09.24/0530	22.2/89.4	45-55 gusting to 65	Depression
14.09.24/1130	22.4/88.8	45-55 gusting to 65	Depression
14.09.24/1730	22.5/88.2	45-55 gusting to 65	Depression
15.09.24/0530	22.5/87.5	40-50 gusting to 60	Depression
15.09.24/1730	22.5/86.7	35-45 gusting to 55	Depression

Warnings:

(i) Rainfall warning

Gangetic West Bengal: Light to moderate rainfall at most places is very likely with heavy to very heavy rainfall at few places and extremely heavy rainfall at isolated places on 13th and 14th; heavy to very heavy rainfall at isolated places on 15th September.

Odisha: Light to moderate rainfall at most places is very likely with **heavy to very heavy rainfall** at isolated places on 13th; **heavy to very heavy rainfall** at a few places and **extremely heavy rainfall** at isolated places on 14th and **heavy to very heavy rainfall** at isolated places on 15th September.

Jharkhand: Light to moderate rainfall at most places with isolated **heavy rainfall** very likely on 13th and **heavy to very heavy rainfall** at isolated places on 14th &15th September.

Bihar: Light to moderate rainfall at most places with **heavy rainfall** at isolated places very likely during 13th-15th September.

Chhattisgarh: Light to moderate rainfall at most places with isolated **heavy rainfall** on 14th & 15th September and **heavy to very rainfall** at isolated places on 16th September.

Mizoram & Tripura: Light to moderate rainfall at most places is very likely with **heavy to very heavy** rainfall at isolated places on 13th and isolated **heavy rainfall** on 14th September.

Assam & Meghalaya: Light to moderate rainfall at many places is very likely with isolated **heavy rainfall** during 13th -14th September.

(ii) Flash Flood Guidance: (Graphics Attached)

24 hours Outlook for the Flash Flood Risk (FFR) till 1730 IST of 14-09-2024:

Moderate to High flash flood risk likely over few watersheds & neighbourhoods of following Met Subdivisions during next 24 hours.

Odisha - Baleshwar, Mayurbhani and Sundargarh districts.

Gangetic West Bengal - Bankura, Bardhaman, Birbhum, East and West Mednipur, Howrah, Hooghly, Kolkata, Murshidabad, Nadia, North & South 24 Parganas districts.

Jharkhand - Deoghar, Dumka, East Singhbhum, Godda, Pakur and Sahebganj districts.

Mizoram and Tripura - Chandel, Ukhrul, Lawngtlai, Lunglei, Saiha, Serchhip and South Tripura districts Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over Area of Concern as shown in map due to expected rainfall occurrence in next 24 hours.

(iii) Wind warning:

Squally wind speed reaching 45-55 kmph gusting to 65 kmph is prevailing over north Bay of Bengal and along & off Bangladesh, West Bengal, and north Odisha coasts. It is likely to continue so till evening of 14th September. It is likely to decrease, gradually becoming 40-50 kmph gusting to 60 kmph by morning of 15th September.

Squally wind speed reaching 35-45 kmph gusting to 55 kmph likely over Gangetic west Bengal and adjoining north Odisha during 14th & 15th September and over Jharkhand on 15th and 16th September.

(iv) Sea Condition:

Rough to very rough sea condition is very likely to prevail over north Bay of Bengal and along & off West Bengal-Odisha coasts till morning of 16th September.

(iv) Fishermen Warning:

Fishermen are advised not to venture into north Bay of Bengal and along & off Bangladesh, West Bengal, and Odisha coasts till morning of 16th September.

Impact Expected (Gangetic West Bengal, Odisha, Bihar, Jharkhand, Chhattisgarh, Mizoram, and Tripura due to heavy rainfall)

- ✓ 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 and roadways due to water logging in roads and poor visibility due to heavy rain leading to increased travel time and incidents

- ✓ Likely disruption of marine and inland water transportation like small boats and trawlers.
- ✓ Minor damage to kutcha roads.
- ✓ Possibilities of damage to vulnerable structure.
- ✓ Localized Landslides/Mudslides/landslips/mud slips/land sinks/mud sinks.
- ✓ Damage to horticulture and standing crops in some areas due to inundation and wind.
- ✓ It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC)

Action Suggested (Gangetic West Bengal, Odisha, Bihar, Jharkhand, Chhattisgarh, Mizoram, and Tripura due to heavy rainfall)

- ✓ Fishermen are advised not to venture into north Bay of Bengal from 13th to 16th September morning.
- ✓ Judicious regulation of surface transports including railways and roadways and onshore/offshore activities.
- ✓ 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.

Agromet advisories for Heavy Rainfall likely over various parts of the country

- ✓ Provide mechanical support to horticultural crops & staking to vegetables.
- ✓ Keep the harvested produce at safer place.

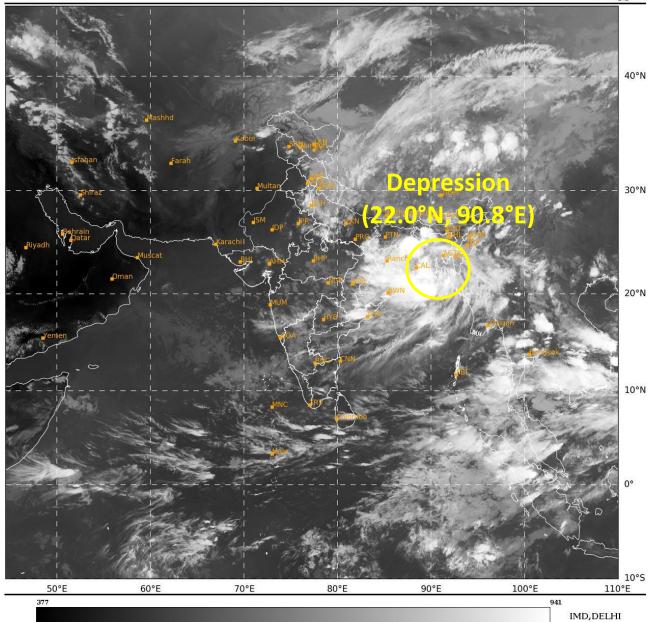
Significant amount of rainfall (in cm) recorded from 0830 hrs IST to 1730 hrs IST of today, the 13th September (is given in Annexure –I).

The next bulletin will be issued at 0130 hrs IST of 14th September, 2024.

(Dr Suprit Kumar) Scientist-E, RSMC, New Delhi

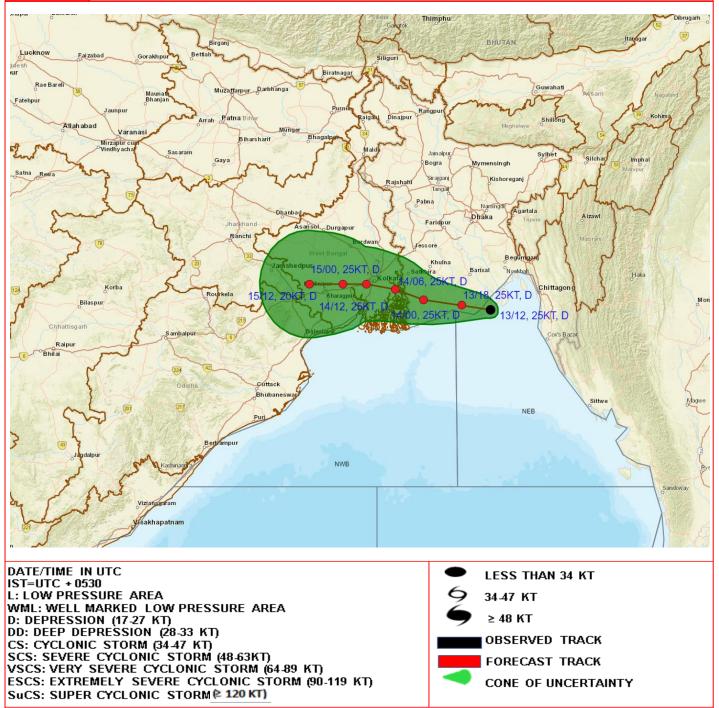
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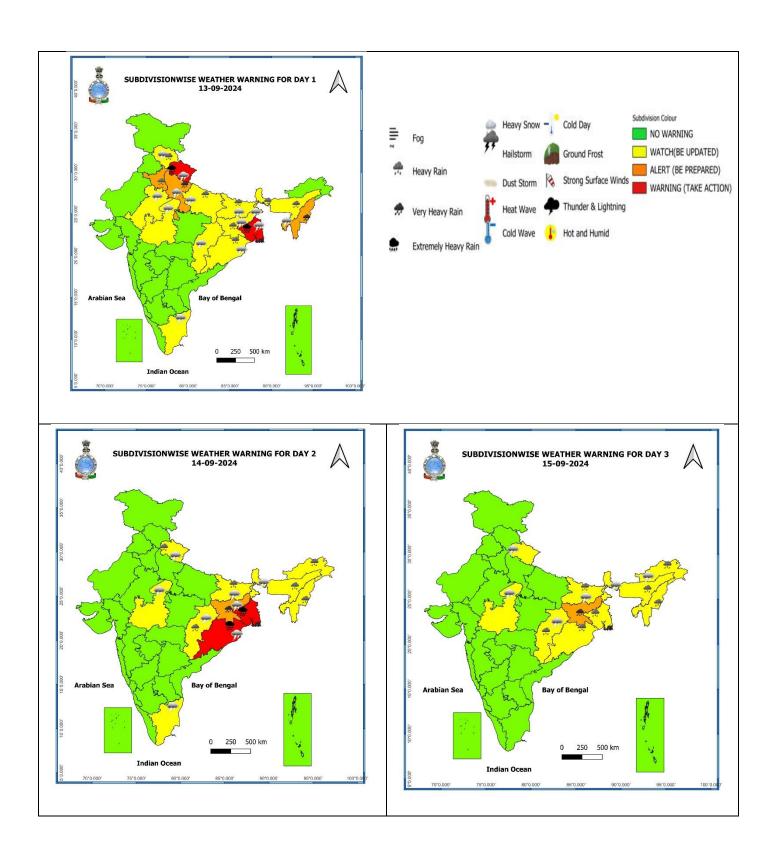


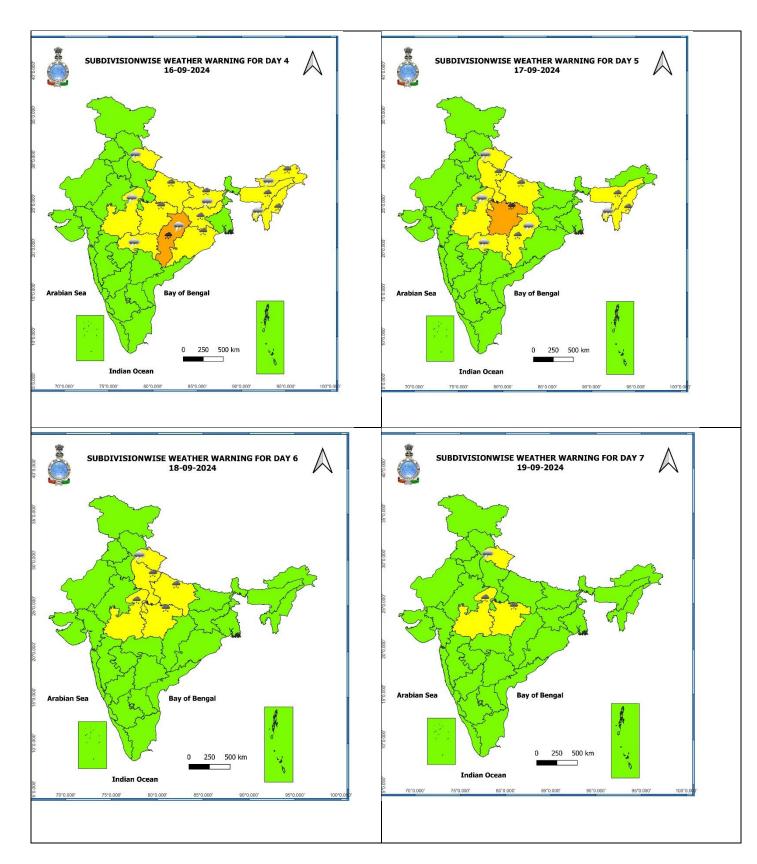




OBSERVED AND FORECAST TRACK OF DEPRESSION OVER NORTHEAST BAY OF BENGAL CLOSE TO BANGLADESH COAST BASED ON 1200 UTC (1730 IST) OF 13TH SEPTEMBER, 2024.







- Action may be taken based on **ORANGE** AND **RED** COLOUR warnings.
- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases

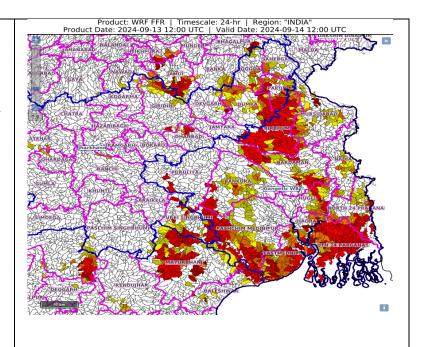
Flash Flood Guidance

4 hours Outlook for the Flash Flood Risk (FFR) till 1730 IST of 14-09-2024 :

Moderate to High flash flood risk likely over few watersheds & neighbourhoods of following Met Sub-divisions during next 24 hours.

Odisha - Baleshwar, Mayurbhanj and Sundargarh districts. Gangetic West Bengal Bankura. Bardaman, Birbhum, Eastmednipur, Haora, Hugli, Kolkata, Mursidabad, Nadia, North 24 Pragana, Pashchim Medinipur and South 24 **Parganas** districts. **Jharkhand** - Deoghar, Dumka, East Singhbhum, Godda, Pakur and Sahebganj districts.

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

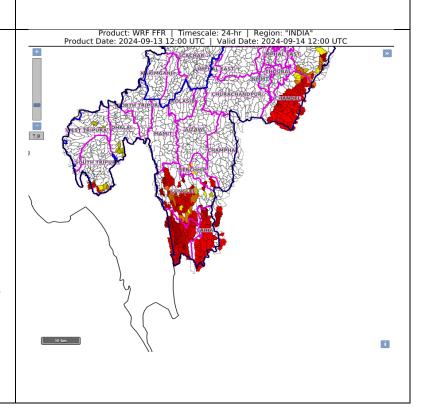


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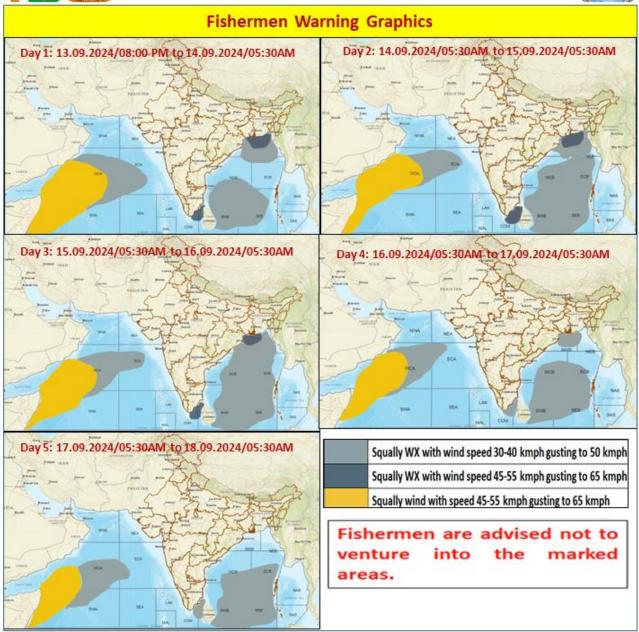
Mizoram and Tripura - Chandel, Ukhrul, Lawngtlai, Lunglei, Saiha, Serchhip and South Tripura districts.

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



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Significant Rainfall recorded during past 24 hours till 0830 hours IST of today 13.09.2024 (in cm):

- ❖ Uttarakhand: Pancheshwar & Nainital-15, Kashipur-14, Chorgalia & Bhimtal-13, Rudrapur-12, Champawat, Pati, Devidhura, Lohaghat-11 each, Dahari-10, Pithoragarh-9, Pantnagar-8, Mukteshwar-5, Khatima-3, New Tehri & Dehradun-2 each;
- **Himachal Pradesh:** Shimla-2;
- ❖ Delhi: Palam-6, Ayanagar & Safdarjung-5 each;
- ❖ Gangetic West Bengal: Bagati-6, Berhampore, Haldia & Sagar Islands-5 each, Uluberia-4, Alipore-3, Barrackpore, Salt Lake & Digha-2 each;
- **❖ Jharkhand:** Daltonganj-5;
- ❖ Odisha: Rourkela-4
- ❖ West Uttar Pradesh: Sarsawa-4, Muzaffarnagar & Najibabad-2 each;