

India Meteorological Department (Ministry of Earth Sciences)

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Sub: Deep Depression over Gangetic West Bengal

The deep depression over Gangetic West Bengal moved slowly northeastward with a speed of 5 kmph during past 6 hours and lay centered at 2330 hours IST of yesterday, the 14th September 2024, over the same region near latitude 22.6° N and longitude 88.5° E, close to east-northeast of Kolkata (West Bengal), about 170 km east-southeast of Bankura (West Bengal), 240 km east of Jamshedpur (Jharkhand) and 340 km east-southeast of Ranchi (Jharkhand).

It is likely to move slowly, nearly westwards across Gangetic West Bengal and maintain its intensity of deep depression till forenoon of the 15th September. Thereafter, it will continue to move nearly westwards across Jharkhand and North Chhattisgarh and weaken gradually into a depression during subsequent 24 hours.

The deep depression is under continuous surveillance by the Doppler Weather Radar at Kolkata.

Forecast track and intensity are given in the following table:

Date/Time (IST)	Position	Maximum Sustained Surface Wind	Category Of Cyclonic
	(Lat. °N/ Long. °E)	Speed (Kmph)	Disturbance
14.09.24/2330	22.6/88.5	50-60 gusting to 70	Deep Depression
15.09.24/1130	22.6/87.7	50-60 gusting to 70	Deep Depression
15.09.24/2330	22.6/86.8	45-55 gusting to 65	Depression
16.09.24/1130	22.7/85.8	40-50 gusting to 60	Depression
16.09.24/2330	22.8/84.7	35-45 gusting to 55	Depression

Warnings:

(i) Rainfall warning

Gangetic West Bengal (including Kolkata): Light to moderate rainfall at most places is very likely with **heavy to very heavy rainfall** at few places over Gangetic West Bengal and **extremely heavy rainfall** at isolated places over south Gangetic West Bengal on 15th; **heavy rainfall** at isolated places on 16th September.

Sub-Himalayan West Bengal: Light to moderate rainfall at most places is very likely with **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 a few places over Odisha and **extremely heavy rainfall** at isolated places over north Odisha on 15th and **heavy to very heavy rainfall** at isolated places over Odisha 17th September.

Jharkhand: Light to moderate rainfall at most places with **heavy to very heavy rainfall** at isolated places and **extremely heavy rainfall** over south Jharkhand on 15th and **heavy rainfall** at isolated places over Jharkhand 16th & 17th September.

Bihar: Light to moderate rainfall at most places with **heavy to very heavy rainfall** at isolated places very likely on 15th and **heavy rainfall** at isolated places over Bihar 16th & 17th September.

Chhattisgarh: Light to moderate rainfall at most places with **heavy to very heavy rainfall** at a few places on 15th-17th September.

East Madhya Pradesh: Light to moderate rainfall at most places with **heavy to very heavy rainfall** at isolated places on 15th ,16th and 17th September.

East Uttar Pradesh: Light to moderate rainfall at most places with **heavy rainfall** at isolated places on 16th & 17th September.

West Madhya Pradesh: Light to moderate rainfall at most places with **heavy rainfall** at isolated places on 17th & 18th September.

Mizoram & Tripura: Light to moderate rainfall at most places is very likely with isolated **heavy rainfall** during 15th -16th September.

Assam & Meghalaya: Light to moderate rainfall at many places is very likely with isolated **heavy rainfall** on 15th September.

(ii) Flash Flood Guidance: (Graphics Attached)

24 hours Outlook for the Flash Flood Risk (FFR) till 0530 IST of 15-09-2024:

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

Odisha - Baleshwar, Bhadrak, Deogarh, Jajapur, Kendujhar, Mayurbhanj and Sundargarh districts.

Gangetic West Bengal - Bankura, Bardaman, Birbhum, East & West Mednipur, Howrah, Kolkata, North & South 24 Parganas, and Purulia districts.

Jharkhand - Bokaro, Dhanbad, East & West Singhbhum, Giridih, Hazaribagh, Jamtara, Khunti, Koderma, Ranchi. and Saraikela 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 50-60 kmph gusting to 70 kmph is likely to over north Bay of Bengal and along & off Bangladesh, West Bengal, and north Odisha coasts till forenoon of 15th September. It is likely to become 40-50 kmph gusting to 60 kmph till morning of 16th September and decrease thereafter.

Squally wind speed reaching 45-55 kmph gusting to 65 kmph likely over Gangetic west Bengal (including Kolkata) and adjoining north Odisha & Jharkhand from night of 14th till morning of 15th 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 forenoon of 15th September.

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

(iv) Fishermen Warning:

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

Impact Expected (West Bengal (including Kolkata), Odisha, Bihar, Jharkhand, Chhattisgarh, Bihar, and Chhattisgarh 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 (West Bengal (including Kolkata), Odisha, Bihar, Jharkhand, Chhattisgarh, Bihar, Chhattisgarh)

- ✓ Fishermen are advised not to venture into north Bay of Bengal till16th September.
- ✓ 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.

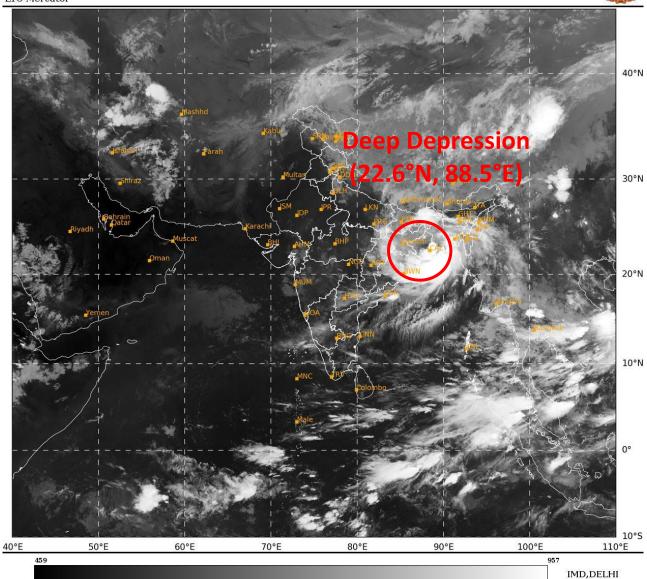
Significant amount of rainfall (from 0830 hours IST to 1730 hours IST of today) (in cm) in Annexure-I.

The next bulletin will be issued at 0830 hrs IST of today, the 15th September, 2024.

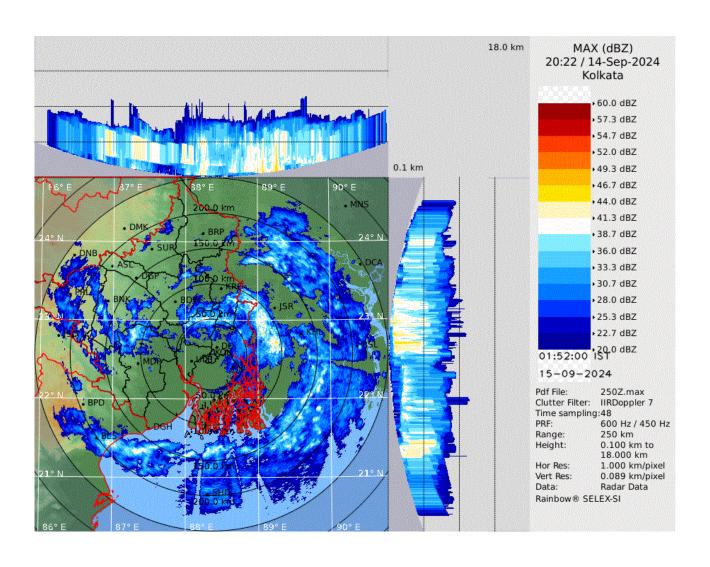
(Dr Trisanu Banik) Scientist-D, RSMC, New Delhi

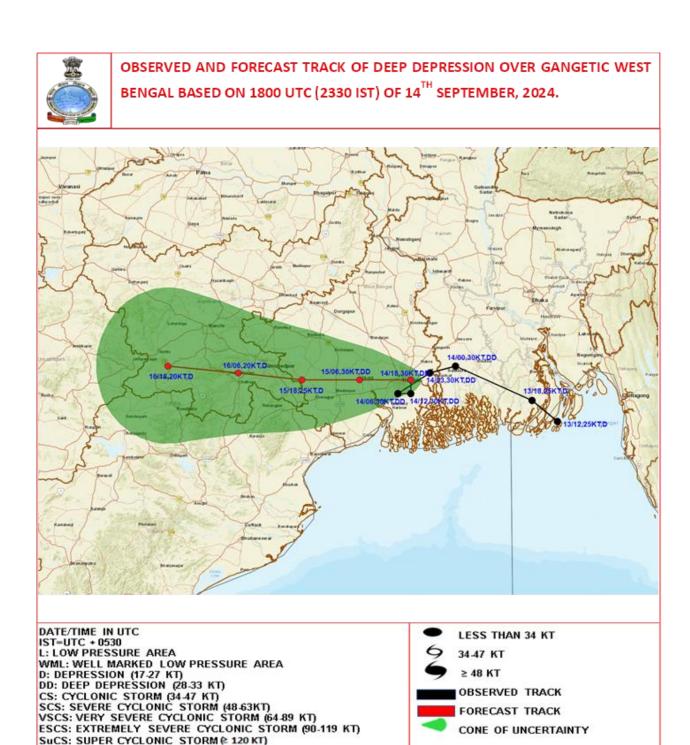
Copy to: CRS, Pune/RMC Chennai /RMC Kolkata/RMC Guwahati/MC Bhubaneswar/MC Ranchi/MC Patna/MC Raipur/ MC Agartala/ MC Shillong/MC Aizawl/Mc, Bhopal/MC Lucknow





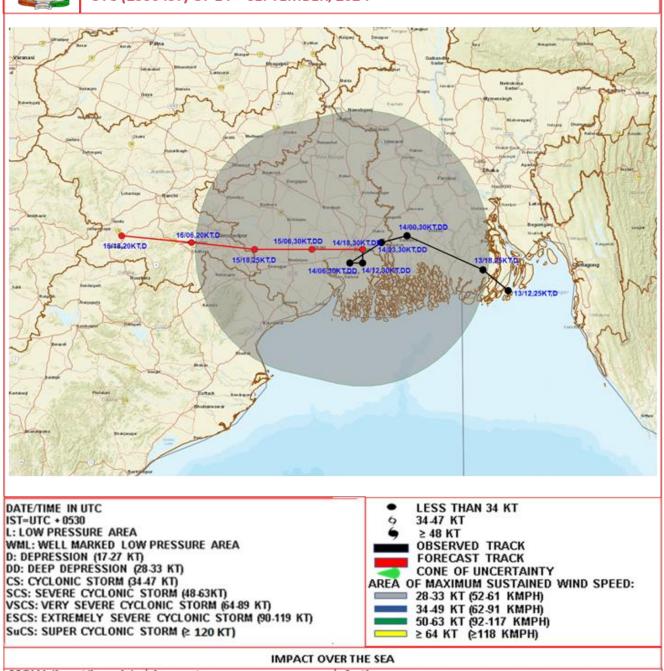
Kolkata Radar Image





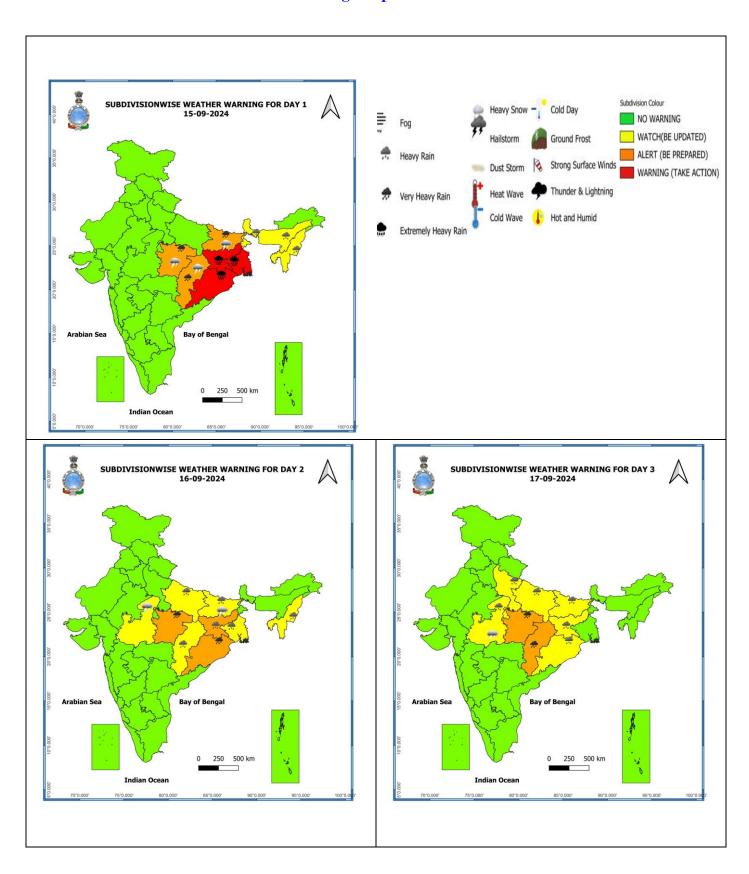


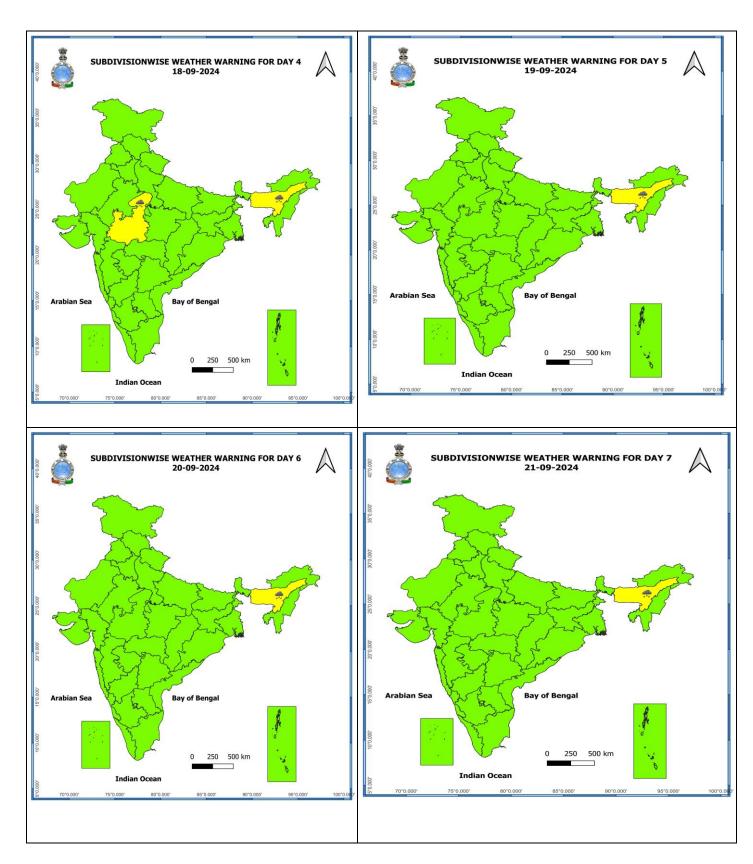
OBSERVED AND FORECAST TRACK ALONG WITH QUADRANT WIND DISTRIBUTION OF DEEP DEPRESSION GANGETIC WEST BENGAL BASED ON 1800 UTC (2330 IST) OF 14TH SEPTEMBER, 2024



IMPACT OVER THE SEA			
MSW (knot/kmph)	Impact	Action	
28-33 (52-61)	Very rough seas	Total suspension of fishing operations	
34-49 (62-91)	High to very high seas	Total suspension of fishing operations	
50-63 (92-117)	Very high seas	Total suspension of fishing operations	
≥ 64 (≥118)	Phenomenal	Total suspension of fishing operations	

Warning Graphics

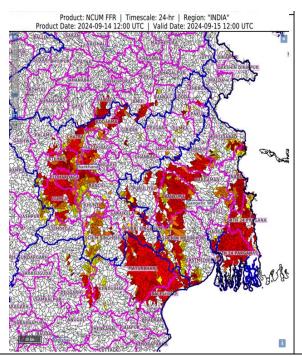




- Action may be taken based on **ORANGE** AND **RED** COLOUR warnings.
- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases

Flash Flood Guidance

24 hours Outlook for the Flash Flood Risk (FFR) till 1730 IST of 15-09-2024:



Moderate flash flood risk likely over few watersheds & neighbourhoods of

Gangetic West Bengal - Bankura, Bardhaman, Birbhum, East & West Mednipur, Howrah, Hoogly, Kolkata, Mursidabad, Nadia, North & South 24 Parganas, abd Purulia districts.

Odisha - Anugul, Baleshwar, Deogarh, Mayurbhanj and Sundargarh

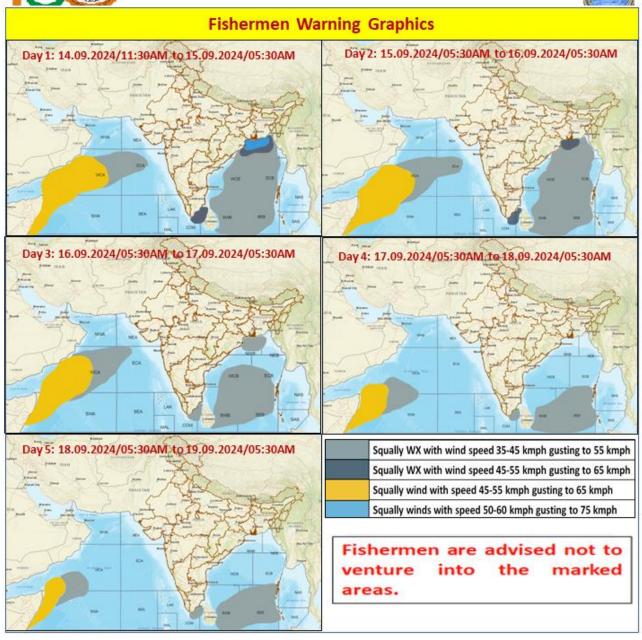
Jharkhand - Chatra, Dhanbad, Dumka, East & West Singhbhum, Giridih, Godda, Gumla, Hazaribagh, Jamtara, Khunti, Koderma, Latehar, Lohardaga, Pakur, Palamu, Ramgarh, Ranchi, Sahebganj, Saraikela, and Simdega districts

Bihar - Banka, Gaya, Jamui and Nawada districts. districts.

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.







Annexure-I

Significant amount of rainfall (from 0830 hours IST to 1730 hours IST of today) (in cm):

- ❖ Gangetic West Bengal: Barrackpore 8, Contai 7, Asansol 6, Kalikunda 5, Mindapore 4, Panagarh 4, Digha 4, Uluberia 4, Haldia 3, Bagati 3, Burdwan
- ❖ Odisha: Kusumi (Mayurbhanj) 14, Bhograi (Balasore) 10, Jaleswar (Balasore) 7,
- **❖ Bihar: ::** Darbhanga 4, Bhagalpur 3;
- Jharkhand: Jamshedpur 3
- ❖ Sub-Himalayan West Bengal: Kalimpong 6, Darjeeling 3;