

India Meteorological Department (Ministry of Earth Sciences)

NATIONALBULLETIN NO.: 13 (BOB/05/2024)

TIME OF ISSUE: 0900 HOURS IST DATED: 16.09.2024

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Sub: Deep Depression over Gangetic West Bengal

The deep depression over Gangetic West Bengal moved slowly northwestward with a speed of 3 Kmph during past 6 hours and lay centered at 0530 hours IST of today, the 16th September 2024, over the same region near latitude 23.0° N and longitude 87.0° E, 40 km south of Bankura (West Bengal), 90 km east-northeast of Jamshedpur (Jharkhand) and 180 km east of Ranchi (Jharkhand).

It is likely to move slowly west-northwestwards across Gangetic West Bengal and weaken into a depression during next 12 hours. Thereafter, it will continue to move west-northwestwards across Jharkhand and North Chhattisgarh 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 (Lat. °N/ Long. °E) | Maximum Sustained Surface Wind Speed (Kmph) | Category Of Cyclonic Disturbance |
|-----------------|------------------------------|---|-------------------------------------|
| 16.09.24/0530 | 23.0/87.0 | 50-60 gusting to 70 | Deep Depression |
| 16.09.24/1730 | 23.3/85.9 | 50-60 gusting to 70 | Deep Depression |
| 17.09.24/0530 | 23.6/84.4 | 45-55 gusting to 65 | Depression |
| 17.09.24/1730 | 24.2/82.9 | 35-45 gusting to 55 | Depression |

Warnings:

(i) Rainfall warning

Jharkhand: Light to moderate rainfall at most places with **heavy to very heavy rainfall and extremely heavy falls** at isolated places very likely over Jharkhand 16th September.

Gangetic West Bengal: Light to moderate rainfall at most places is very likely with heavy to very heavy rainfall at isolated places over western parts of Gangetic West Bengal on 16th September.

Odisha: Light to moderate rainfall at most places is very likely with **heavy to very heavy rainfall** at isolated places over North Odisha on 16th September.

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

Chhattisgarh: Light to moderate rainfall at most places with **heavy to very heavy rainfall** at a few places on 16th September and **heavy rainfall** at isolated places on 17th September.

Madhya Pradesh: Light to moderate rainfall at most places with **heavy rainfall** at isolated places over East Madhya Pradesh on 16th & **heavy to very heavy rainfall** at isolated places on 17th September. Light to moderate rainfall at many places with **heavy rainfall** at isolated places over northwest Madhya Pradesh on 17th September.

Uttar Pradesh: Light to moderate rainfall at many places with **heavy rainfall** at isolated places over southeast Uttar Pradesh on 16th and over South Uttar Pradesh on 17th & 18th September.

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

(ii) Flash Flood Guidance: (Graphics Attached)

Outlook for the Flash Flood Risk (FFR) till 1730 IST of 16-09-2024:

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

Odisha - Keonjhar, Mayurbhanj, Deogarh, Baragarh, Jharsuguda, Subarnpur, Sambalpur and Sundargarh districts.

Chhattisgarh - Balarampur, Jashpur, Korea, Surajpur and Surguja districts.

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

Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over Area of Concern 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 prevail along & off Bangladesh, West Bengal, and north Odisha coasts adjoining north Bay of Bengal during next 6

hours. Thereafter, it is likely to become 40-50 kmph gusting to 60 kmph till evening of 16th September and decrease further.

Squally wind speed reaching 50-60 kmph gusting to 70 kmph is likely to prevail over Gangetic West Bengal and adjoining Jharkhand & north Odisha till evening of 16th September. Thereafter, it is likely to decrease gradually becoming 40-50 kmph gusting to 60 kmph over Jharkhand and adjoining Gangetic West Bengal & North Chhattisgarh and to prevail till evening of 17th September and decrease thereafter.

(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 during next 6 hours.

Subsequently, Rough Sea condition is likely to prevail over north Bay of Bengal and along & off West Bengal-Odisha coasts from afternoon 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 (Western parts of Gangetic West Bengal, North Odisha, South Bihar, Jharkhand, North Chhattisgarh and Northeast Madhya Pradesh due to heavy rainfall and strong winds)

- ✓ 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, North Odisha, South Bihar, Jharkhand, North Chhattisgarh, South Uttar Pradesh and Northeast Madhya Pradesh due to heavy rainfall)

- ✓ 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 places.

Significant amount of rainfall (from 0830 hours IST of yesterday, the 15th September to 0530 hours IST of today, the 16th September, 2024) (in cm).

Odisha: Balasore-10.

Jharkhand: Jamshedpur-9, Daltonganj-6, Ranchi-3;

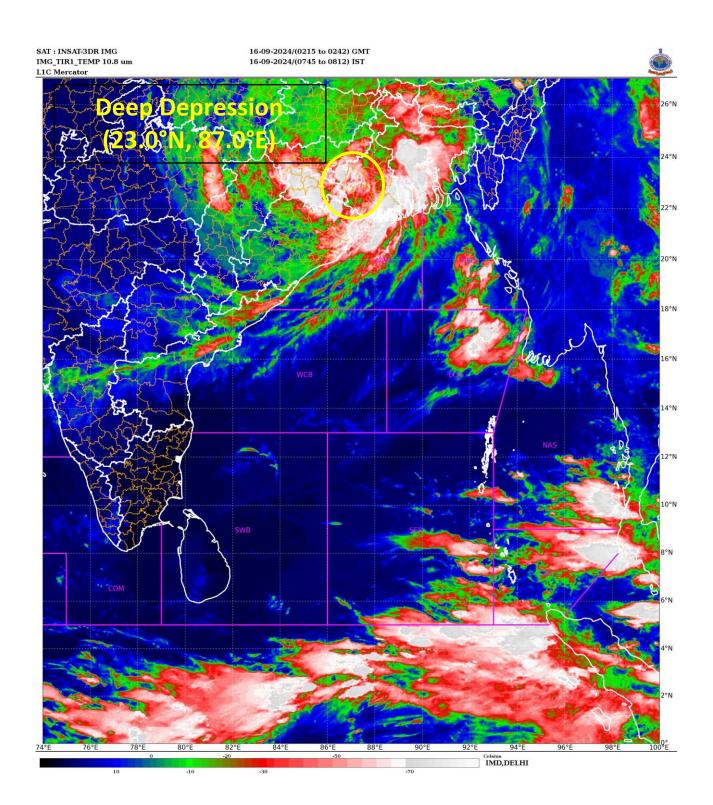
Gangetic West Bengal: Bankura-8, Kolkata (Alipore)-3, Digha-5, Malda-2;

Chhattisgarh: Ambikapur-5;

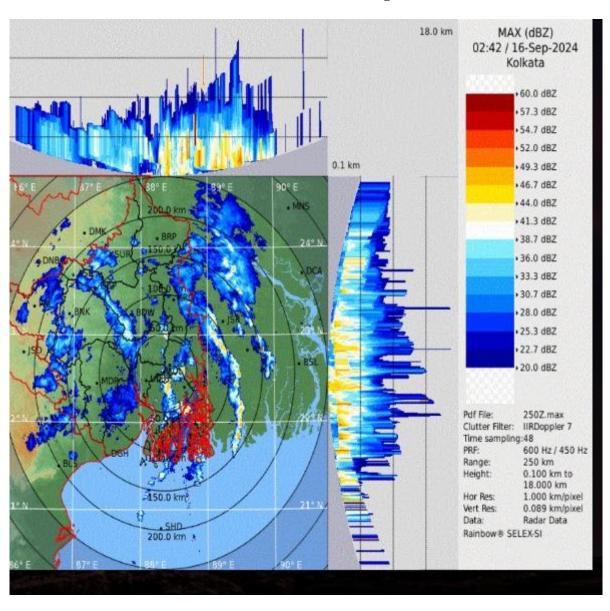
The next bulletin will be issued at 1230 hrs IST of today, the 16th September, 2024.

(Dr. Shashi Kant) 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

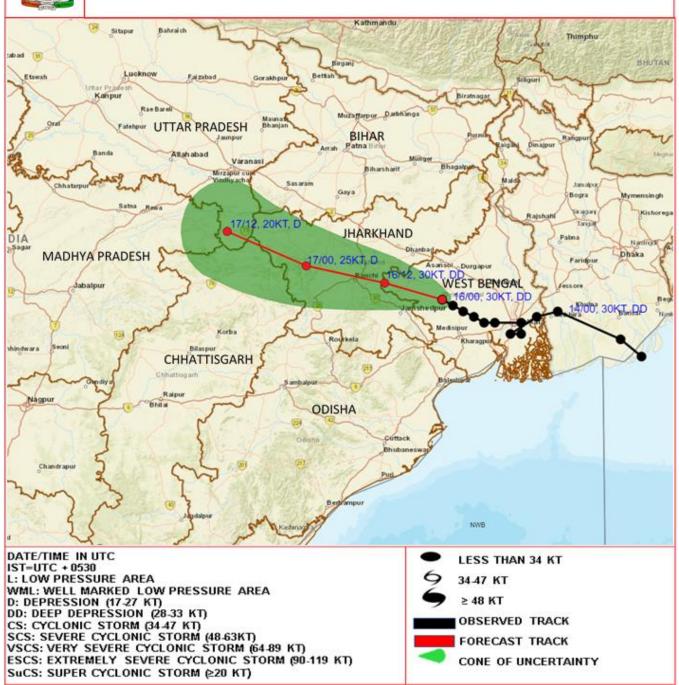


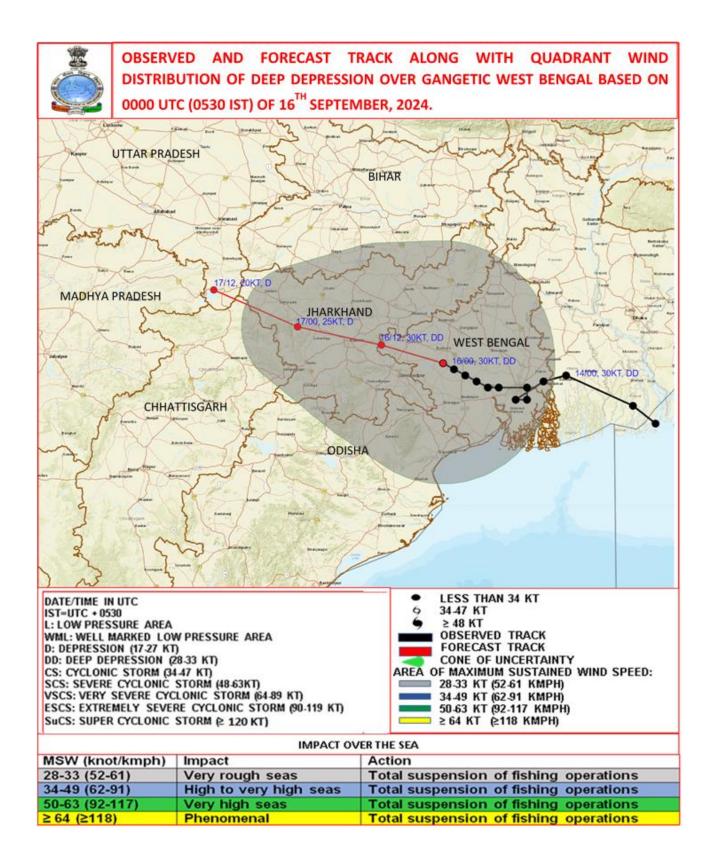
Kolkata Radar Image

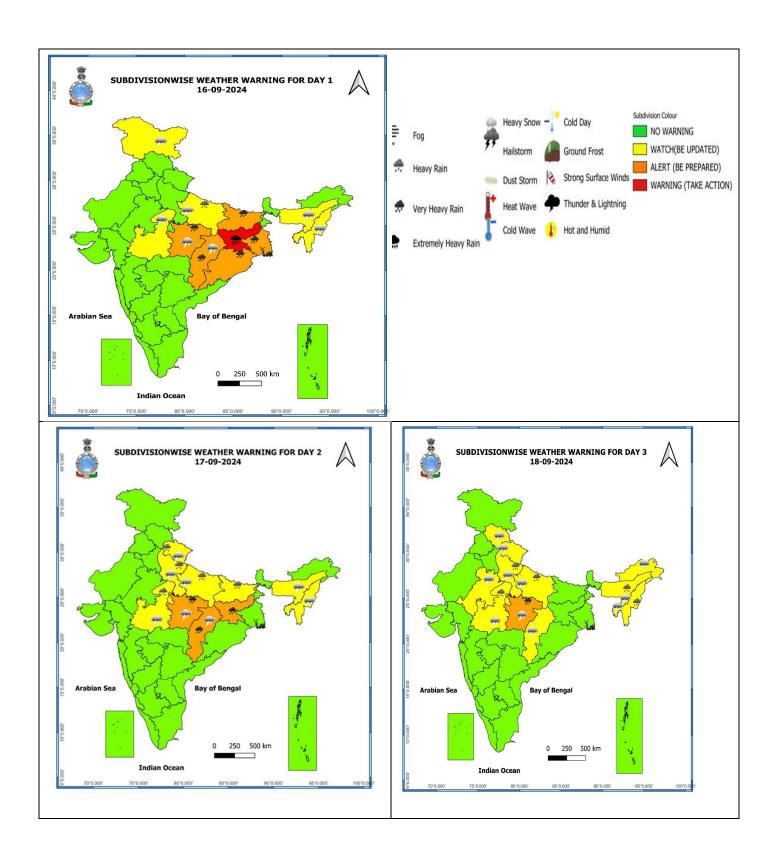


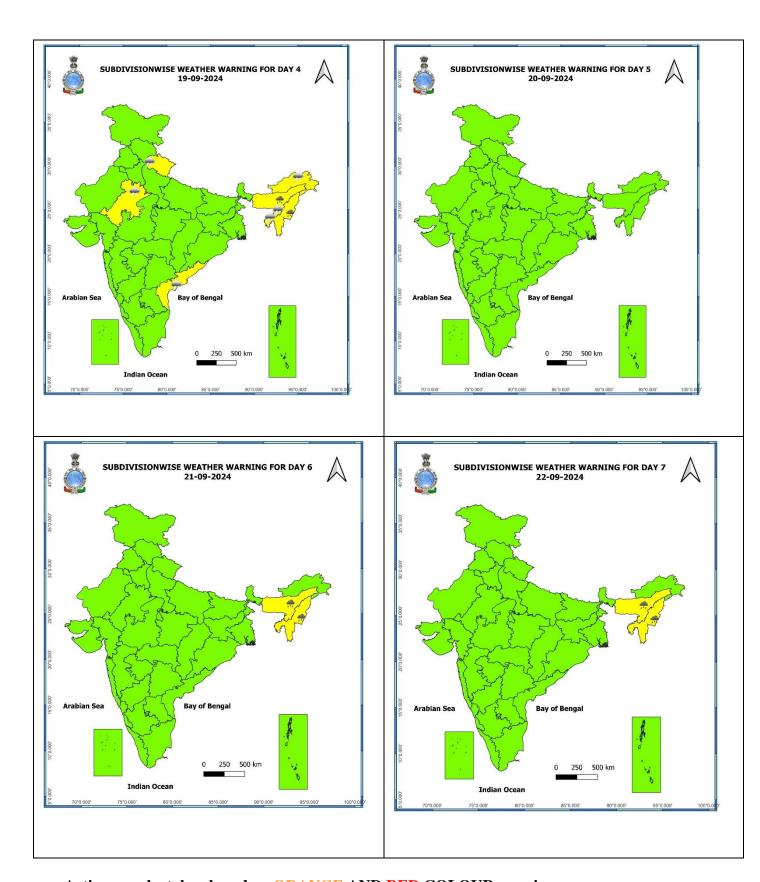


OBSERVED AND FORECAST TRACK OF DEEP DEPRESSION OVER GANGETIC WEST BENGAL BASED ON 0000 UTC (0530 IST) OF 16TH SEPTEMBER, 2024.



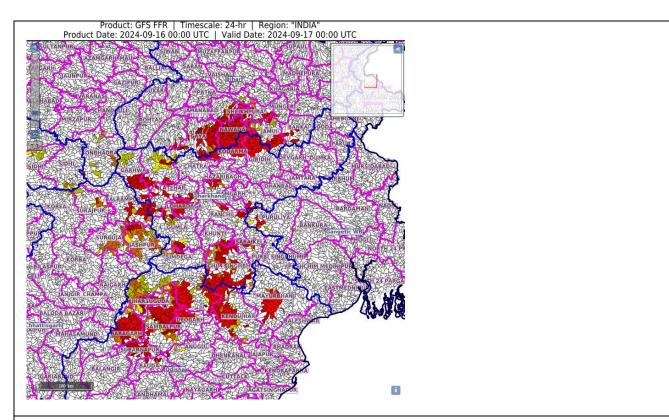






- Action may be taken based on **ORANGE** AND **RED** COLOUR warnings.
- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases

Flash Flood Guidance



24 hours Outlook for the Flash Flood Risk (FFR) till 0530 IST of 17-09-2024:

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Odisha - Keonjhar, Mayurbhanj, Deogarh, Baragarh, Jharsuguda, Subarnpur, Sambalpur and Sundargarh districts.

Chhattisgarh Balarampur, Jashpur, Korea, Surajpur Surguja districts. Jharkhand - Bokaro, Chatra, Deoghar, Dhanbad, Dumka, East Singhbhum, Garhwa, Giridih, Godda, Gumla, Hazaribagh, Jamtara, Khunti, Koderma, Latehar, Lohardaga, Pakur, Palamu, Ranchi, Sahebganj, Saraikela and West Singhbhum districts. Ramgarh,

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.





