

Shrimp Survey Cruise Report

Survey season 2021-22

Cruise number: **Shrimp Cruise-3 (07 to 09 and 13 to 18 February, 2022)**



Survey vessel: **RV Meen Shandhani**

Survey number: **2021202**

Report Date: **22/02/2022**

Background:

R.V. Meen Shandani went to the sea for conducting Shrimp Survey numbered 2021202 as part of the 2021-22 survey season, designed by the Survey Design Working Group (SDWG). The current cruise is designated as the 3rd Leg of Shrimp Survey of this season. The cruise was scheduled to be conducted from First 07-02-2022 to 09-02-2022 and 2nd 13-02-2022 to 18-02-2022. It went according to the schedule.

Participants/ Scientific Staffing:

The vessel was manned for this cruise by 8 scientific staffs and 24 officers & crew members. The list of personnel (scientific staffs) in this cruise is as follows:

1. First 3rd Leg of Shrimp Survey:

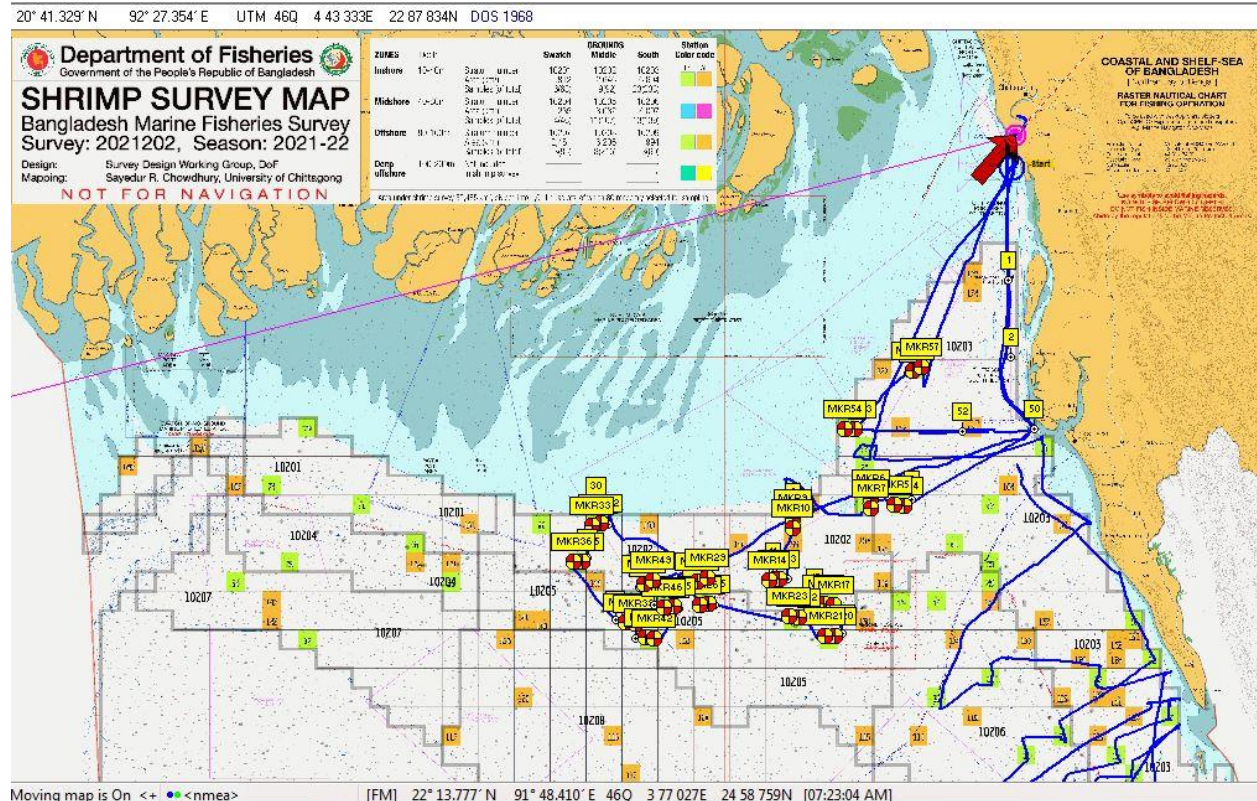
SL No.	Name & Designation	Affiliation	Role in the cruise
01	Sanjay Kumar Mohanta, Marine Fisheries Officer	Marine Fisheries Survey Management Unit, Chattogram	Cruise Leader
02	Al Mamun, Fisheries Quarantine Officer	FQO's Office, Shah Amanat Int. Airport, Chattogram	Scientist
03	Nripendra Kumar Shingah, Assistant Director	Shrimp Culture Extension Office, Cox's Bazar	Taxonomist
04	Md. Mahmudul Islm Choudhury, Asst. Project Director	Sustainable Coastal and Marine Fisheries Project, Chattogram	Scientist
05	Hasan Anwarul Kabir, Scientific Officer	Marine Fisheries Survey Management Unit, Chattogram	Taxonomist
06	Mohammad Mosleh Uddin Scientific Officer	Marine Fisheries Survey Management Unit, Chattogram	Scientist
07	Tamnush Bosu, Technical Officer	Sustainable Coastal and Marine Fisheries Project, Chattogram	Asst. Scientist
08	Md. Shakhawat Hossain, Reference Collection Assistant	R.V. Meen Shandhani	Research Assistant

2. Second 3rd Leg of Shrimp Survey:

SL No.	Name & Designation	Affiliation	Role in the cruise
01	Sanjay Kumar Mohanta, Marine Fisheries Officer	Marine Fisheries Survey Management Unit, Chattogram	Cruise Leader
02	Al Mamun, Fisheries Quarantine Officer	FQO's Office, Shah Amanat Int. Airport, Chattogram	Scientist
03	Md.Rashed Parvez, Assistant Director	Pilot Project on Tuna and Similar Pelagic Fishing in Deep Sea .	Taxonomist
04	Md. Imran Bulbul Siddiqi Scientific Officer	Marine Fisheries Survey Management Unit, Chattogram	Scientist
05	Md. Anwar Hossain, Scientific Officer	Marine Fisheries Survey Management Unit, Chattogram	Taxonomist
06	Md. Ahmed Imtiaz Scientific Officer	Marine Fisheries Survey Management Unit, Chattogram	Scientist
07	Rakib Hossain, Scientific Officer	Marine Fisheries Survey Management Unit, Chattogram	Scientist
08	Md. Shakhawat Hossain, Reference Collection Assistant	R.V. Meen Shandhani	Research Assistant

Sampling strategy:

The cruise was planned to follow the previous guidelines and revised survey design. In this particular Shrimp survey a total of 17 stations were covered for sampling. The sampling points with covered area are given in the following map.



Results:

Sampling stations and activities: From the first 07/02/2022 to 09/02/2022, we had to cancel the cruise and return because it was not possible to cast the net for the generator error.

1. A total of 17 hauls were conducted during the 06 days survey cruise. During the studies date, time, latitude, longitude, depth, wire out etc. were recorded and inputs of these data were stored in Nansis software. After sampling the species, records of length, weight and numbers were recorded *in situ*. The details of sampling stations are given below (Table 1):

Table 01: Records of stations with latitude, longitude, stratum and depth

Date	Time (start)	Station	Latitude (dd)	Longitude (dd)	Depth (m)	Remarks
07-02-2022	10.00					Departure
08-02-2022						Cancel the cruise for the generator error.
09-02-2022	8.30					Arrival
13-02-2022	12.00					Departure
14-02-2022	8.53	68	21.2713	91.4967	17	
14-02-2022	10.34	69	21.2898	91.4048	15	
15-02-2022	7.25	64	21.1419	91.1128	14	
15-02-2022	9.33	50	21.0475	91.0891	28	
15-02-2022	11.40	44	21.0105	91.1653	46	
15-02-2022	13.18	33	20.5601	91.1822	70	
15-02-2022	15.00	40	20.5894	91.1233	60	
15-02-2022	17.22	46	21.0096	90.5729	51	
15-02-2022	19.03	51	21.0452	90.5533	30	
16-02-2022	6.58	65	21.1354	90.3923	14	
16-02-2022	8.38	57	21.0748	90.3619	28	
16-02-2022	10.52	41	20.5815	90.4333	81	
16-02-2022	12.17	35	20.5571	90.4659	83	
16-02-2022	14.16	47	21.0049	90.5133	63	
16-02-2022	15.57	52	21.0403	90.4637	38	
17-02-2022	11.55	78	21.2818	91.2157	14	
17-02-2022	14.52	80	21.3718	91.3125	16	
18-02-2022	8.30					Arrival

2. **Operation hours:** Trawling operations were conducted from early morning to late afternoon almost all working days.
3. **Hydrographic data collection:** Due to lack of CTD equipments during the survey, CTD data weren't collected.
4. **Taxonomic data collection:** All the newly recorded, unidentified and rare species were observed and taxonomic data were collected with clear, fresh pictures of the species captured by a high resolution camera for later identification.
5. **Sample collection:** For further taxonomic, gonado-somatic and biological study some species samples were collected and preserved.

Recommendations:

1. Every cruise should be started with two trained 'Taxonomist' otherwise it will be difficult to collect proper taxonomic data.
2. For further analysis of samples at different academic institutions or research laboratories, sample sending/providing protocol should be developed.

Supplies:

1. Stationary supplies should always be in surplus than is needed; binder clips are in short supply.

Annex:

Annex 1. Catch Summaries (Shrimp Survey-2021202)

---End of Report---

Reported by



Sanjay Kumar Mohanta

Cruise Leader

Shrimp Survey (2021202), Cruise #01

Dated: 22/02/2022

Reported to: PSO (Marine Fisheries Survey Management Unit)

With copies to: Next Cruise Leaders