

Shrimp Survey Cruise Report

Survey season 2021-22

Cruise number: **Shrimp Cruise-1 (09 to 15 January, 2022)**



Survey vessel: **RV Meen Shandhani**

Survey number: **2021202**

Report Date: **30/01/2022**

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 1st Leg of Shrimp Survey of this season. The cruise was scheduled to be conducted from 09-01-2022 to 15-01-2022. 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:

SL No.	Name & Designation	Affiliation	Role in the cruise
01	Al Mamun, Fisheries Quarantine Officer	FQO's Office, Shah Amanat Int. Airport, Chattogram	Cruise Leader
02	Nripendra Kumar Shingah, Assistant Director	Shrimp Culture Extension Office, Cox's Bazar	Taxonomist
03	Mohammad Eusuf Hasan, Scientific Officer	Marine Fisheries Survey Management Unit, Chattogram	Taxonomist
04	Md. Gaziur Rahman, Scientific Officer	Marine Fisheries Survey Management Unit, Chattogram	Scientist
05	Sanjoy Kumar Mohanta, Marine Fisheries Officer	Marine Fisheries Survey Management Unit, Chattogram	Scientist
06	Hasan Anwarul Kabir, 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

Sampling strategy:

The cruise was planned to follow the previous guidelines and revised survey design. In this particular Shrimp survey a total of 21 stations were covered for sampling. The sampling points with covered area are given in the following map.

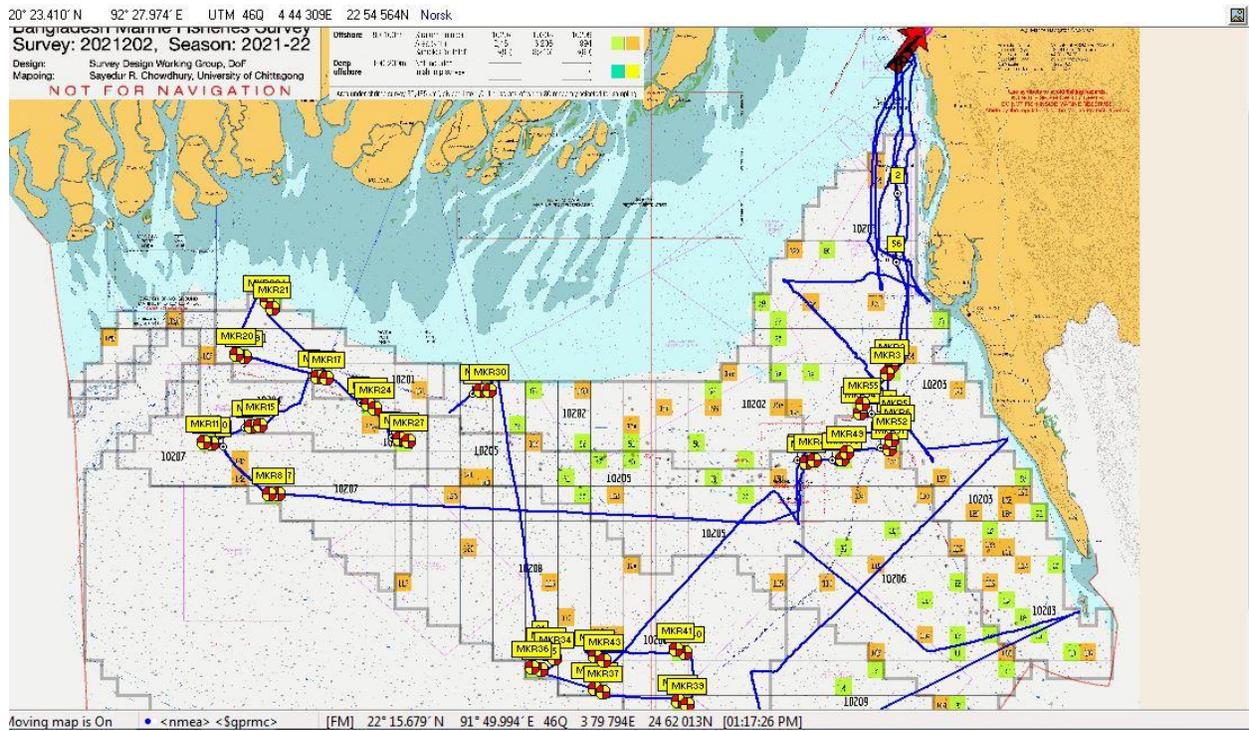


Fig. 01: Shrimp Survey Map with the covered area during the 1st leg of this survey (2021202, 2021-22 season).

All the relevant data and information regarding sampling were recorded thoroughly and put in NANSIS software server for analysis.

Results:

1. **Sampling stations and activities:** A total of 21 hauls were conducted during the 07 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
09-01-2022	13.00					On boarding
10-01-2022	06.45					Departure
10-01-2022	13.20	67	21.2922	91.7338	23	
10-01-2022	15.57	55	21.1182	91.7438	43	
11-01-2022	06.53	37	20.9265	89.8543	98	
11-01-2022	09.33	54	21.0708	89.6552	87	
11-01-2022	11.47	59	21.1207	89.7702	84	
11-01-2022	14.52	71	21.2620	89.9762	28	
11-01-2022	17.16	74	21.3175	89.7525	27	
12-01-2022	07.51	79	21.4758	89.8212	14	
12-01-2022	11.40	63	21.1845	90.1292	43	
12-01-2022	13.28	53	21.0823	90.2265	77	
12-01-2022	16.12	66	21.2220	90.4730	18	
13-01-2022	08.32	14	20.4720	90.6788	95	
13-01-2022	10.02	09	20.4267	90.6585	97	
13-01-2022	12.16	05	20.3700	90.7598	97	
13-01-2022	14.35	03	20.3363	91.0798	97	
13-01-2022	16.58	12	20.4738	91.1028	92	
13-01-2022	20.03	13	20.4630	90.8273	94	
14-01-2022	07.02	43	21.0158	91.4725	56	
14-01-2022	08.45	42	21.0253	91.58.38	58	
14-01-2022	10.42	49	21.0562	91.7305	50	
14-01-2022	12.38	61	21.1572	91.6393	37	
15-01-2022	12.30					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



Al Mamun

Cruise Leader

Shrimp Survey (2021202), Cruise #01

Dated: 30/01/2022

Reported to: PSO (Marine Fisheries Survey Management Unit)

With copies to: Next Cruise Leaders