

Demersal Survey Cruise Report

Survey season 2021-22

Cruise number: DEmersal Cruise-1 (25 February to 03 March 2022)



Survey vessel: **RV Meen Shandhani**

Survey number: **2021203**

Report Date: **07/03/2022**

Background:

R.V. Meen Shandani went to the sea for conducting Shrimp Survey numbered 2021203 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 Demersal Survey of this season. The cruise was scheduled to be conducted from 25-02-2022 to 03-03-2022. 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	Md. Gaziur Rahman, Scientific Officer	Marine Fisheries Survey Management Unit, Chattogram	Cruise Leader
02	Dr. Shahidul Islam Bhuyan Assistant Director	Office of the Deputy Director, Department of Fisheries, Dhaka Division, Dhaka.	Scientist
03	Nripendra Kumar Shingah, Assistant Director	Shrimp Culture Extension Office, Cox's Bazar	Taxonomist
04	Md. Musfiques Salehin, Assistant Project Director	Sustainable Coastal and Marine Fisheries Project, Barishal.	Scientist
05	Md. Aktaruzzaman Scientific Officer	Marine Fisheries & Technology Center, BFRI, Cox's Bazar.	Scientist
06	Hasan Anwarul Kabir, Scientific Officer	Marine Fisheries Survey Management Unit, Chattogram	Taxonomist
07	Tamnush Bosu, Technical Officer	Sustainable Coastal and Marine Fisheries Project, Chattogram	Asst. Scientist
08	Md. Shakhawat Hossain	R.V Meen Shandhani	Research Scientist

Sampling strategy:

The cruise was planned to follow the previous guidelines and revised survey design. In this particular Demersal survey a total of 24 stations were covered for sampling. The sampling points with covered area are given in the following map.

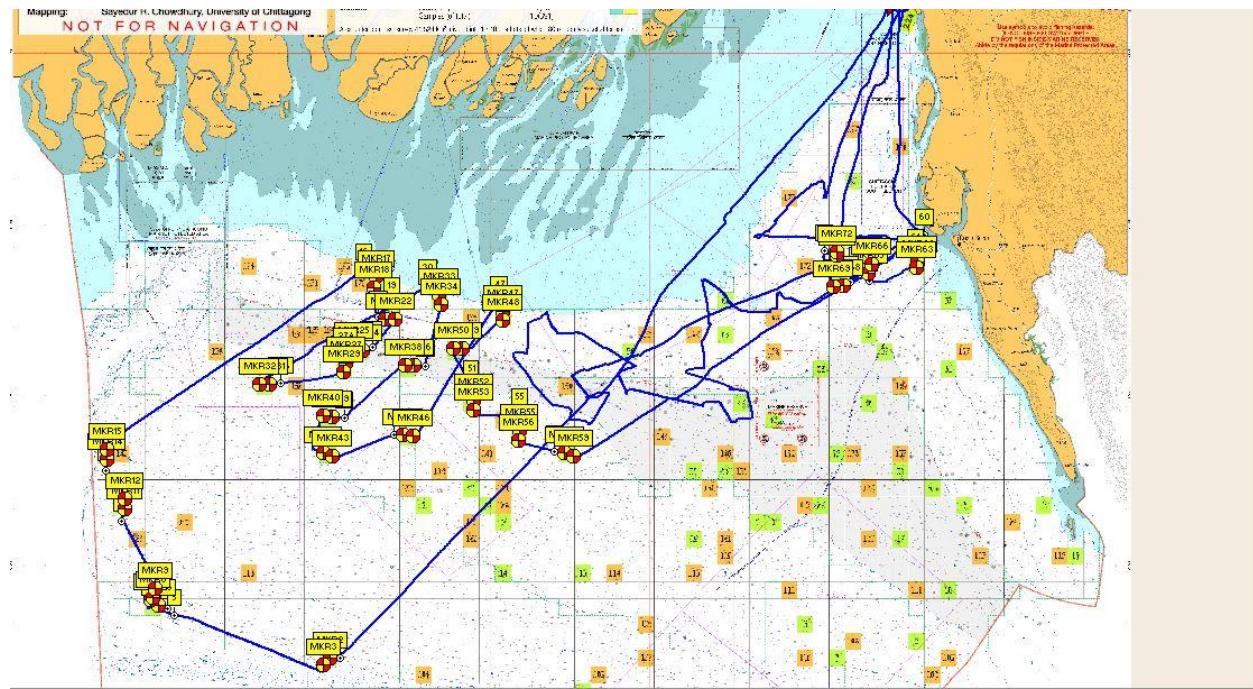


Fig. 01: Demersal Survey Map with the covered area during the 1st leg of this survey (2021203, 2021-22 season).

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 24 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
25-02-2022	02.30					Departure
26-02-2022	08.31	04	20.2282	89.9948	169	
26-02-2022	13.26	09	20.3828	89.4533	177	
26-02-2022	15.16	11	20.4062	89.4367	170	
26-02-2022	18.23	30	20.6635	89.3482	136	
26-02-2022	20.27	40	20.8037	89.2922	125	
27-02-2022	08.52	71	21.3430	90.1368	14	
27-02-2022	10.45	66	21.2200	90.1678	27	
27-02-2022	12.37	60	21.1290	90.0978	72	
27-02-2022	14.00	54	21.0925	90.0430	82	
27-02-2022	16.24	50	21.0300	89.8040	92	
28-02-2022	08.47	69	21.2917	90.3375	15	
28-02-2022	11.10	53	21.0838	90.2600	75	
28-02-2022	14.05	45	20.9337	90.0018	92	
28-02-2022	16.03	38	20.8285	89.9712	99	
01-03-2022	06.59	65	21.2438	90.5367	15	
01-03-2022	09.05	59	21.1348	90.4105	36	
01-03-2022	11.11	48	20.9818	90.4440	85	
01-03-2022	13.56	41	20.8938	90.5900	85	
01-03-2022	16.06	37	20.8273	90.7302	85	
01-03-2022	18.32	42	20.8798	90.2242	91	
02-03-2022	07.28	72	21.3877	91.8398	20	
02-03-2022	09.50	74	21.3550	91.6843	25	
02-03-2022	12.13	70	21.3190	91.6097	24	
02-03-2022	14.51	76	21.4058	91.5870	20	
03-03-2022	10.30					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:

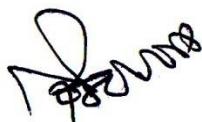
1. Stationary supplies should always be in surplus than is needed; binder clips are in short supply.

Annex:

Annex 1. Catch Summaries (Shrimp Survey-2021202)

---End of Report---

Reported by



Md. Gaziur Rahman

Cruise Leader

DEmersal Survey (2021203), Cruise #01

Dated: 07/03/2022

Reported to: PSO (Marine Fisheries Survey Management Unit)

With copies to: Next Cruise Leaders