

# **Demersal Survey Cruise Report**

**Survey season 2021-22**

**Cruise number: Demersal Cruise-02 (08 to 13 March, 2022)**



**Survey vessel: RV Meen Shandhani**

**Survey number: 2021203**

**Report Date: 10/04/2022**

## 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 2nd Leg of Demersal Survey of this season. The cruise was scheduled to be conducted from 08-03-2022 to 13-03-2022. It went according to the schedule.

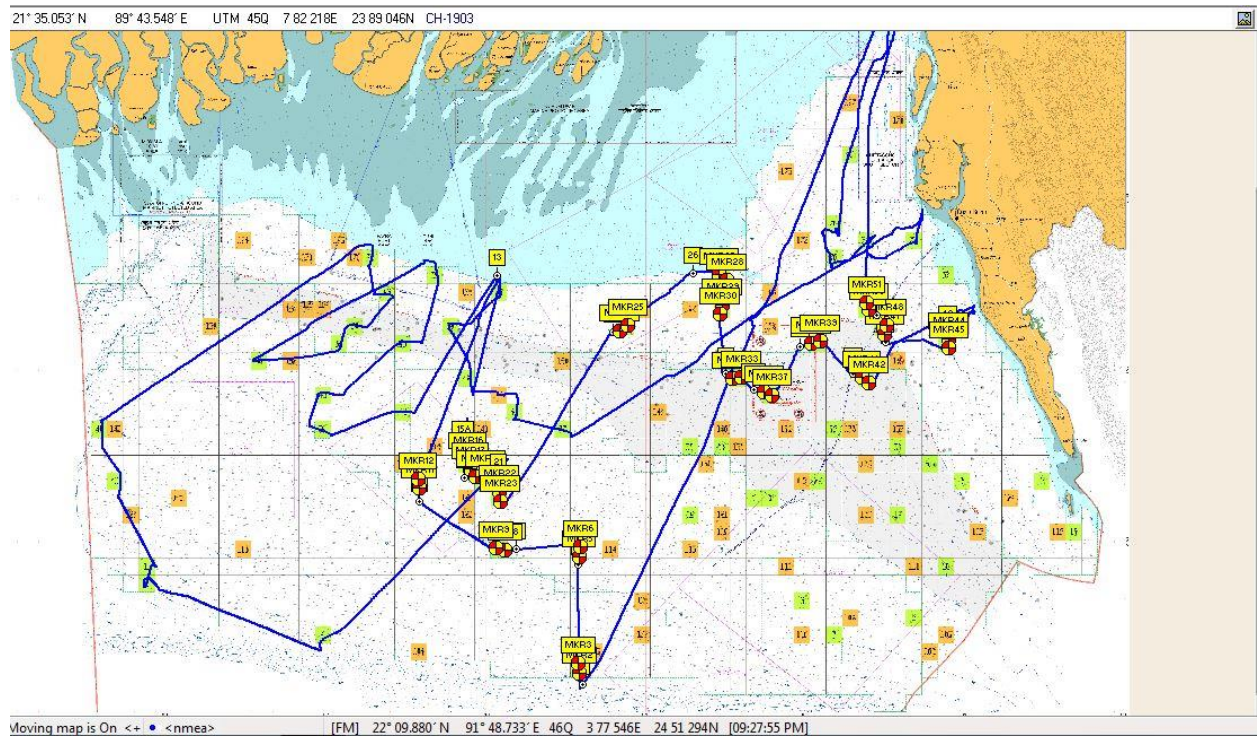
## Participants/ Scientific Staffing:

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	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	Md. Gaziur Rahman, Scientific Officer	Marine Fisheries Survey Management Unit, Chattogram	Scientist
04	Md. Arshad Sheikh, Marine Production Officer	Marine Fisheries Office, Agrabsd, 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	Taxonomist
07	Tamnush Bosu, Technical Officer	Sustainable Coastal and Marine Fisheries Project, Chattogram	Asst. Scientist
08	Md. Kamrul Islam, Technical Officer	Sustainable Coastal and Marine Fisheries Project, Chattogram	Asst. Scientist

## Sampling strategy:

The cruise was planned to follow the previous guidelines and revised survey design. In this particular Demersal survey cruise a total of 17 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 2<sup>nd</sup> leg of this survey season (2021/2022).**

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 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
08-03-2022	13:00					On boarding
08-03-2022	15:30					Departure
09-03-2022	07:22	01	20.1167	90.7905	150	
09-03-2022	10:25	13	20.4552	90.7897	96	
09-03-2022	13:12	14	20.4733	90.5528	99	
09-03-2022	16:28	29	20.6540	90.2895	96	
10-03-2022	09:27	32	20.7393	90.4412	90	
10-03-2022	11:27	28	20.6882	90.4673	92	
10-03-2022	13:04	22	20.6600	90.5418	93	
10-03-2022	18:02	58	21.1125	90.9172	20	
11-03-2022	07:04	68	21.2742	91.2262	13	
11-03-2022	08:28	63	21.1868	91.2397	15	
11-03-2022	10:40	47	20.9727	91.2697	58	
11-03-2022	12:20	43	20.9335	91.3680	68	
11-03-2022	14:47	52	21.0747	91.5163	44	
11-03-2022	16:58	46	20.9780	91.6767	60	
12-03-2022	08:15	51	21.0890	91.9467	23	
12-03-2022	10:59	57	21.1013	91.7450	46	
12-03-2022	12:45	61	21.1728	91.6367	34	
13-03-2022	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 (Demersal Survey-2021203)

---End of Report---

**Reported by****Al Mamun**

Cruise Leader

Demersal Survey (2021203), Cruise #02

Dated: 10/04/2022

**Reported to:** PSO (Marine Fisheries Survey Management Unit)

**With copies to:** Next Cruise Leaders