

Center for Fisheries Research & Development - Gulf Coast Research Laboratory
University of Southern Mississippi
SEAMAP Fall Shrimp/Groundfish Survey, R/V Tommy Munro - Cruise 1205

Introduction - The Mississippi Fall Shrimp/Groundfish Survey was conducted from October 3 to October 5, 2012. A total of 11 trawl stations were sampled following the revised trawl protocol of a 30-minute (bottom) tow time and no day/night designations for stations; however, biological catch was only processed at ten stations, as the entire trawl (trawl, doors and bridles) were lost at one station.

Objectives

- Conduct summer shrimp and groundfish survey in East Delta region at randomly-selected stations (locations of which are provided by NMFS) with standard SEAMAP 40-ft trawls to collect information on shrimp and groundfish abundance and distribution.
- Process all species (identified to the species level) collected by 40-ft trawl using the FSCS software for total number and total weight. Process individual lengths and weights, sampled (or sub-sampled) by species, using FSCS software according to the SEAMAP Operations Manual.
- Collect information on physical-chemical and environmental parameters in conjunction with trawl sampling and process those using SCS software.
- Submit data to the Gulf States Marine Fisheries commission/NMFS Data Manager.

Methods - All trawl samples were collected aboard the *R/V Tommy Munro*. A 40 ft. trawl with 1.58 inch stretched mesh was lowered into position at selected stations, and the towline was set at a 3.5:1 cable length to water depth ratio. Trawling was conducted at or near 3 knots for a period of 30 minutes after lockdown. Sample and data processing was conducted in accordance with the SEAMAP Operations Manual. Data were entered using the Fisheries Scientific Computer System. Environmental and meteorological data were measured and recorded in conjunction with each trawl.

Results – An expanded total of 297.15 kg of biota was collected in ten trawl samples. Time, location, depth and total catch data are given in Table 1. All data are appropriately filed with the Gulf States Marine Fisheries Commission.

Deviations - There were no deviations from standard SEAMAP protocol.

Cruise Participants - USM/GCRL/CFRD

Submitted By:



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Table 1. Time, location and depth data for 40-ft trawl samples collected aboard *R/V Tommy Munro*, SEAMAP Cruise Number 1205, October 3 - 5, 2012.

SEAMAP Station	Start Date - Time	Bottom Time (min)	Start Depth (m)	Start Latitude	Start Longitude	Total Catch Weight (kg)
E1004	10/03/2012 8:29:17	30.02	40.0	2955.72	8704.25	12.93
E1005	10/03/2012 12:50:20	21.18	40.0	2942.02	8721.40	lost trawl
E1006	10/03/2012 14:46:06	30.02	33.0	2939.13	8727.96	4.69
E1111	10/03/2012 20:07:53	30.02	30.0	2924.63	8807.88	11.59
E1109	10/03/2012 21:52:50	30.13	26.0	2929.18	8813.41	107.39
E1106	10/04/2012 0:12:34	30.02	22.0	2934.08	8818.40	70.25
E1112	10/04/2012 11:26:34	30.00	36.0	2908.88	8852.10	73.55
E1110	10/04/2012 15:17:55	30.03	9.1	2926.93	8851.74	1.49
E1108	10/04/2012 17:10:19	30.02	8.1	2933.12	8849.34	1.51
E1107	10/04/2012 18:25:54	30.25	7.3	2933.78	8850.19	3.14
E1105	10/04/2012 20:59:59	30.12	11.0	2942.49	8839.42	10.62