

Florida SEAMAP Fall 2022 Survey Cruise Report (10/3 – 10/25/2022)

Cruise Number 172205 using the R/V Tommy Munro

Prepared by:

Ted Switzer

Florida Fish and Wildlife Conservation Commission

Fish and Wildlife Research Institute

100 8th Avenue SE

St. Petersburg, FL 33701

Introduction

Florida shrimp and groundfish trawl surveys are conducted to provide fisheries-independent data on the distribution and abundance of fishes and macroinvertebrates in the eastern Gulf of Mexico as part of the coordinated and cost-efficient SEAMAP program. Fisheries-independent data, which are collected without the direct reliance on information provided by commercial and recreational fishers, are essential to the assessment and management of fisheries resources in Florida and the nearshore Gulf of Mexico. Data collected by these surveys will be used to improve existing single-species assessments for managed species as well as further develop an ecosystem-based approach to managing fisheries resources in the eastern Gulf of Mexico. As part of ongoing efforts, the objective of the Florida SEAMAP trawl program is to conduct two sampling cruises annually: one in the summer and one in the fall. During each cruise, samples will be collected throughout the eastern Gulf of Mexico, with a primary emphasis on sampling the southern-most statistical zones.

Objectives

1. Conduct a seasonal (summer or fall) trawl survey to collect information on shrimp and groundfish abundance/distribution with standard SEAMAP 42-foot trawls.
2. Select sampling stations from NMFS-generated universe of known bathymetric data.
3. Identify, weigh, count, and measure all species according to protocols outlined in the NMFS SEAMAP Operations Manual.
4. Collect information on environmental parameters (salinity, temperature, dissolved oxygen, wind speed and direction, wave height, and precipitation) in conjunction with trawl sampling.
5. Code all data according to approved NMFS SEAMAP Operations Manual guidelines and enter data in the NMFS SEAMAP data entry system.
6. Submit data to the Gulf States Marine Fisheries Commission/NMFS Data Manager.

Methods

Overall seasonal sampling effort was allocated proportionally among NMFS statistical reporting zones based on proportional availability of sampling habitat within two depth strata (5 – 20 and 20 – 60 fathoms). Within each spatial stratum, specific trawling sites were chosen following a simple random survey design.

At each trawl station, samples were collected using a standard 42-foot SEAMAP trawl. Trawls were towed at a speed of 3 knots for a standard duration of 30 minutes. Sample workup and data processing were conducted in accordance with the SEAMAP Operation Manual guidelines. In addition, specimens were retained to validate field identifications and provide biological material for various life-history studies (e.g., age and growth, reproduction, diet, and mercury concentration). Environmental data (temperature, salinity, pH, and dissolved oxygen) were measured in association with each trawl event using a CTD.

Results

During the fall 2022 survey, Florida and other state/federal partners sampled a total of 139 stations with 115 stations being considered representative with reportable catch. Five stations were deemed representative but with some problems. A total of 19 stations were abort due to gear damage or excessive bycatch (Table 1). Total catch weight from trawls with reportable catch was 8,669.28 kg. Individual trawl catch weights ranged from 0.61 kg to 958.78 kg. There were 61,705 animals collected, including 6,713 Pink Shrimp (*Farfantepenaeus duorarum*; 37% occurrence), 147 Red Snapper (*Lutjanus campechanus*; 25% occurrence), and 73 Lionfish (*Pterois* spp.), which occurred in 24 of the 120 stations with reportable catch (20% occurrence). The four most abundant species collected were: Pink Shrimp (*Farfantepenaeus duorarum*; n=6,713; 37% occurrence), Dusky Flounder (*Syacium papillosum*; n=4,506; 96% occurrence), Spot (*Micropogonias undulatus*; n=4,123; 8% occurrence), and deep-bodied mojarra complex (*Eucinostomus argenteus* / *gula*; n=3,099; 28% occurrence).

In addition to following standard SEAMAP sampling protocols, ancillary material was collected for various life history studies. Otoliths were removed from 560 fishes for aging analysis, including 421 Lutjanids, 41 Serranids, and 43 Lionfish. In addition, 27 spines were removed from Gray Triggerfish (*Balistes capriscus*) for alternative aging techniques. A total of 32 fin clips were taken for FWRI genetic analysis. Tissue samples were collected from 805 fish for mercury analysis and 713 stomachs were removed for dietary analysis from a wide variety of managed and non-managed species. One hundred forty-seven samples were also collected for cooperative research requests from various federal and state institutions including: Texas A&M, University of West Florida, and National Marine Fisheries Service.

Quality Control

A total of 4,154 animals were frozen or preserved and brought back to FWRI. Of those animals, 1,982 fishes were kept as representative samples and an additional 366 fishes were brought back for further identification in the lab. In addition to fishes, 1,806 invertebrates were brought back for identification by the Florida Biodiversity Collection.

Deviations

- a. A total of 5 trawl stations were deemed representative but with some problems. These trawls had large bycatch quantities, gear fouling (ex. broken tickle chain), or minor torn webbing.
- b. A total of 19 trawl stations were aborted with no reported catch due to gear damage or excessive bycatch that prevented catch from going into the bag.
- c. A total of 11 trawl stations were skipped in statistical Zones 2 - 8 to maximize geographical coverage from lost sea days due to mechanical issues or to reduce gear damage from known hard bottom. The R/V Tommy Munro lost seven sampling days due to a broken transmission. All other stations sampled were completed according to the NMFS SEAMAP protocol.
- d. This cruise was a collaboration with four SEAMAP partners (Mississippi, Alabama, and NMFS) lead by scientists from the Florida Fish and Wildlife Conservation Commission.

Cruise participants

Florida Fish and Wildlife Conservation Commission, Fish and Wildlife Research Institute. Sample summary compiled by Scott Stahl.

The University of Southern Mississippi, Center for Fisheries Research and Development
Alabama Department of Conservation and Natural Resources, Marine Resources Division
National Marine Fisheries Service, Southeast Fisheries Science Center

Submitted By:

Ted Switzer

SEAMAP Coordinator

Table 1. Florida SEAMAP Fall 2022 Shrimp/Groundfish Completed Stations.

** = lost entire rig, tow time incomplete*

SEAMAP SEQUENCE NUMBER	SEAMAP STATION NUMBER	START TIME (GMT)	START LATITUDE	START LONGITUDE	START DEPTH (F)	END DEPTH (F)	SPEED (knts)	TOW TIME (min)	CATCH TOTAL (kg)
172205001	E1006	10/03/2022 13:07:35	2921.85	08749.63	43.9	44.8	3.0	30.02	2.52
172205002	E1003	10/03/2022 20:09:51	3004.53	08714.89	17.5	17.6	3.0	30.00	2.39
172205003	E1005	10/03/2022 22:24:27	2956.59	08708.28	31.0	31.5	3.0	30.02	2.16
172205004	E1001	10/04/2022 0:32:52	3007.63	08703.89	13.1	13.1	3.0	30.02	10.18
172205005	E0907	10/04/2022 6:01:38	2954.70	08629.54	43.6	42.7	3.0	30.02	8.94
172205006	E0905	10/04/2022 9:08:52	2954.19	08612.65	28.5	28.5	3.2	30.00	7.86
172205007	E0904	10/04/2022 11:29:46	2944.90	08608.99	26.3	27.6	3.0	30.00	11.25
172205008	E0809	10/04/2022 14:09:35	2940.24	08555.08	22.2	22.8	3.0	30.02	11.76
172205009	E0906	10/04/2022 16:18:07	2929.07	08603.07	40.0	41.1	3.0	30.00	7.52
172205010	E0811	10/04/2022 18:42:01	2921.16	08552.15	33.1	33.5	3.1	30.03	3.43
172205011	E0810	10/04/2022 21:29:58	2921.35	08537.39	24.9	25.1	2.9	30.02	8.87
172205012	E0812	10/05/2022 2:23:48	2850.72	08523.55	53.6	50.6	3.1	30.00	8.41
172205013	E0613	10/05/2022 6:05:39	2856.01	08456.57	24.3	25.4	3.0	30.00	15.67
172205014	E0614	10/05/2022 8:37:39	2848.89	08442.34	24.7	25.0	3.0	30.00	10.69
172205015	E0616	10/05/2022 10:37:12	2845.51	08452.04	27.5	27.5	2.9	30.02	9.79
172205016	E0617	10/05/2022 13:40:38	2834.42	08435.70	28.2	29.3	3.0	30.00	12.22
172205017	E0618	10/05/2022 15:54:27	2828.65	08449.76	30.6	30.2	3.2	30.00	5.59

SEAMAP SEQUENCE NUMBER	SEAMAP STATION NUMBER	START TIME (GMT)	START LATITUDE	START LONGITUDE	START DEPTH (F)	END DEPTH (F)	SPEED (knts)	TOW TIME (min)	CATCH TOTAL (kg)
172205018	E0621	10/05/2022 17:47:20	2826.05	08458.94	56.2	57.4	2.9	30.02	4.83
172205019	E0622	10/05/2022 19:29:13	2820.08	08456.12	57.5	57.1	2.9	30.02	5.14
172205020	E0620	10/05/2022 21:24:56	2814.30	08451.57	55.4	55.7	3.0	30.02	6.58
172205021	E0619	10/06/2022 0:14:38	2824.15	08438.12	34.5	35.1	3.0	30.02	35.15
172205022	E0615	10/06/2022 2:48:21	2823.12	08423.71	26.7	28.1	3.1	30.02	39.78
172205023	E0514	10/06/2022 7:17:30	2756.89	08403.14	27.6	27.5	3.1	30.02	22.20
172205024	E0518	10/06/2022 9:55:05	2753.15	08422.63	42.1	41.7	3.0	30.02	13.80
172205025	E0520	10/06/2022 11:50:38	2757.86	08431.30	43.3	44.2	3.0	30.00	5.98
172205026	E0516	10/06/2022 14:26:53	2747.32	08416.95	35.1	34.8	3.0	30.00	2.73
172205027	E0519	10/06/2022 16:16:48	2738.42	08416.73	41.4	41.1	3.0	30.02	23.61
172205028	E0517	10/06/2022 18:25:33	2728.48	08410.06	40.0	39.8	3.0	30.05	0.62
172205029	E0515	10/06/2022 21:21:19	2731.35	08353.78	31.0	29.8	3.0	30.02	30.69
172205030	E0522	10/07/2022 0:48:49	2719.52	08415.03	50.6	48.7	2.9	30.05	17.70
172205031	E0521	10/07/2022 2:41:36	2717.20	08409.31	44.8	45.7	2.9	30.00	18.86
172205032	E0523	10/07/2022 4:56:32	2705.93	08409.96	56.7	53.3	3.0	30.00	10.95
172205033	E0421	10/07/2022 8:58:36	2658.67	08341.57	32.9	33.7	3.0	30.00	20.37
172205034	E0418	10/07/2022 11:47:14	2645.64	08328.97	30.2	30.8	3.1	30.00	12.70
172205035	E0422	10/07/2022 13:38:16	2641.37	08339.66	35.7	35.7	3.1	30.00	15.17

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172205036	E0424	10/07/2022 15:46:08	2641.27	08351.42	44.8	44.6	3.1	30.00	4.60
172205037	E0420	10/07/2022 19:43:27	2620.63	08331.73	32.1	33.4	2.9	30.02	14.00
172205038	E0423	10/07/2022 21:37:32	2620.28	08343.21	41.6	41.6	2.9	30.03	7.77
172205039	E0425	10/07/2022 23:25:02	2618.94	08350.51	54.6	54.6	3.0	30.02	11.73
172205040	E0426	10/08/2022 2:08:54	2606.12	08350.85	55.4	54.7	3.0	30.00	36.62
172205041	E0419	10/08/2022 6:18:15	2609.56	08320.64	30.5	31.1	3.0	30.00	10.15
172205042	E0321	10/08/2022 8:21:32	2558.94	08320.51	32.1	32.8	2.9	30.00	35.94
172205043	E0320	10/08/2022 10:45:59	2548.17	08313.27	30.7	31.2	3.1	30.00	125.34
172205044	E0318	10/08/2022 12:57:19	2551.17	08304.10	27.6	28.0	3.0	30.00	26.38
172205045	E0317	10/08/2022 14:47:11	2543.04	08300.28	27.6	28.0	3.1	30.00	105.80
172205046	E0315	10/08/2022 17:20:50	2530.83	08251.01	25.1	25.4	2.9	30.02	0.00
172205047	E0319	10/08/2022 20:46:57	2542.47	08307.52	29.9	30.0	3.0	30.02	11.26
172205048	E0323	10/09/2022 0:12:34	2550.73	08331.29	37.0	38.0	3.1	30.00	41.56
172205049	E0324	10/09/2022 2:12:22	2540.83	08333.06	38.8	38.9	3.0	30.02	55.04
172205050	E0329	10/09/2022 4:52:45	2528.18	08346.58	54.5	54.2	3.0	30.00	46.62
172205051	E0325	10/09/2022 7:24:49	2524.00	08334.61	40.3	40.5	3.0	30.02	32.96
172205052	E0322	10/09/2022 10:19:16	2520.80	08321.12	34.7	35.4	3.0	30.02	163.91
172205053	E0327	10/09/2022 12:58:58	2518.46	08340.35	45.0	46.4	3.0	30.00	0.83

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172205054	E0328	10/09/2022 14:28:35	2513.20	08340.01	43.2	43.3	3.1	30.02	47.31
172205055	E0326	10/09/2022 16:20:58	2505.24	08338.09	38.1	39.5	3.1	30.03	0.00
172205056	E0208	10/09/2022 20:45:02	2435.72	08327.11	35.0	34.6	3.1	30.00	0.00
172205057	E0207	10/10/2022 1:23:14	2458.59	08305.11	29.8	29.8	2.9	30.02	86.50
172205058	E0316	10/10/2022 4:51:10	2514.34	08254.41	26.8	27.5	3.1	30.00	104.72
172205059	E0314	10/10/2022 7:13:27	2501.54	08251.05	24.5	24.5	3.1	30.00	46.31
172205060	E0206	10/10/2022 9:09:35	2457.11	08253.80	24.7	25.0	3.1	30.00	24.19
172205061	E0204	10/10/2022 11:21:23	2451.39	08245.88	20.1	20.4	3.0	30.00	13.50
172205062	E0202	10/10/2022 13:25:18	2447.45	08237.21	17.1	17.3	2.9	30.00	44.20
172205063	E0203	10/10/2022 15:13:14	2455.01	08237.29	18.8	19.1	3.1	30.00	49.71
172205064	E0201	10/10/2022 18:07:48	2454.60	08219.35	14.3	14.5	3.0	30.00	6.07
172205065	E0303	10/10/2022 22:31:00	2501.58	08149.86	9.1	9.9	3.0	30.02	117.08
172205066	E0311	10/11/2022 2:59:40	2501.44	08228.70	17.8	18.5	3.1	30.02	95.22
172205067	E0312	10/11/2022 4:43:31	2507.76	08226.60	18.2	18.7	3.0	30.00	44.26
172205068	E0307	10/11/2022 7:02:45	2518.67	08223.18	15.5	15.6	3.0	30.00	69.95
172205069	E0310	10/11/2022 8:47:44	2526.17	08228.70	16.6	17.8	3.1	30.00	0.00
172205070	E0308	10/11/2022 11:09:03	2525.43	08220.26	14.9	14.9	3.1	30.00	50.54
172205071	E0301	10/11/2022 15:01:30	2532.21	08150.77	7.2	7.1	3.0	30.00	110.96

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172205072	E0302	10/11/2022 16:38:13	2531.71	08157.87	9.4	9.8	2.9	30.02	11.15
172205073	E0304	10/11/2022 18:39:55	2537.76	08207.81	11.7	12.2	3.1	30.02	321.17
172205074	E0306	10/11/2022 20:42:32	2543.63	08217.27	13.6	14.1	3.1	30.00	0.00
172205075	E0305	10/11/2022 22:45:50	2550.85	08214.45	12.2	12.7	2.9	30.00	130.33
172205076	E0404	10/12/2022 1:02:25	2600.66	08208.56	9.8	9.6	2.9	30.00	44.76
172205077	E0401	10/12/2022 3:01:42	2609.44	08203.18	7.2	8.4	3.0	30.00	60.33
172205078	E0309	10/12/2022 6:49:58	2559.70	08232.31	16.2	16.7	3.0	30.00	9.35
172205079	E0313	10/12/2022 9:25:06	2555.16	08252.25	23.0	23.9	3.0	30.02	0.00
172205080	E0411	10/12/2022 11:43:42	2602.82	08245.97	19.2	20.0	3.0	30.02	0.00
172205081	E0413	10/12/2022 15:01:33	2622.65	08300.21	22.2	22.0	2.9	30.02	0.00
172205082	E0415	10/12/2022 16:43:06	2627.56	08306.42	23.6	24.7	3.0	30.00	0.00
172205083	E0416	10/12/2022 18:46:31	2635.38	08313.72	25.2	25.3	3.0	30.03	26.80
172205084	E0417	10/12/2022 21:04:48	2648.22	08321.21	27.4	27.5	3.1	30.02	0.00
172205085	E0512	10/13/2022 0:38:44	2711.78	08328.01	26.0	24.9	3.1	30.02	0.00
172205086	E0511	10/13/2022 2:34:08	2720.51	08330.46	24.9	23.7	3.0	30.02	21.09
172205087	E0513	10/13/2022 4:37:44	2722.86	08336.22	25.5	25.5	2.9	30.00	445.33
172205088	E0510	10/13/2022 7:54:45	2744.40	08338.47	22.8	22.5	3.0	30.00	0.00
172205089	E0509	10/13/2022 9:39:48	2748.96	08342.82	22.6	23.4	3.1	30.00	557.07

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172205090	E0503	10/13/2022 17:07:52	2725.64	08255.66	8.7	8.8	3.0	30.00	0.00
172205091	E0501	10/15/2022 2:20:20	2734.14	08253.09	6.5	6.9	2.9	30.02	0.00
172205092	E0502	10/15/2022 5:27:40	2714.95	08245.54	7.2	7.4	3.0	30.00	57.39
172205093	E0506	10/15/2022 8:45:29	2705.48	08246.64	11.8	12.0	3.1	30.03	0.00
172205094	E0504	10/15/2022 10:57:46	2702.35	08236.87	8.5	8.4	2.9	30.02	0.00
172205095	E0407	10/15/2022 12:38:28	2658.22	08245.30	13.1	13.3	3.0	30.07	218.28
172205096	E0402	10/15/2022 16:59:46	2638.57	08224.79	8.6	8.9	2.9	30.02	172.54
172205097	E0405	10/15/2022 19:27:21	2635.75	08229.58	11.0	10.2	2.9	30.02	159.31
172205098*	E0403	10/15/2022 22:29:00	2618.87	08222.48	8.7	8.9	3.1	4.82	0.00
172205099	E0406	10/16/2022 0:41:23	2610.76	08227.73	12.6	12.9	2.9	30.02	0.00
172205100	E0408	10/16/2022 2:35:32	2609.21	08236.02	14.5	15.4	3.0	30.03	135.44
172205101	E0409	10/16/2022 5:26:35	2625.42	08244.82	15.3	15.4	3.0	30.00	766.90
172205102	E0412	10/16/2022 8:19:32	2631.71	08259.71	20.6	20.4	3.0	30.00	74.08
172205103	E0414	10/16/2022 10:32:57	2635.21	08306.65	23.1	22.6	3.0	30.02	958.78
172205104	E0410	10/16/2022 13:47:13	2650.61	08300.51	19.2	19.9	2.9	30.02	224.43
172205105	E0508	10/16/2022 16:01:18	2700.81	08300.80	18.0	18.9	3.0	30.05	54.07
172205106	E0507	10/16/2022 22:22:12	2749.94	08319.94	16.3	15.2	3.0	30.02	117.35
172205107	E0603	10/25/2022 5:55:31	2818.74	08317.26	11.5	11.1	3.0	30.02	219.31

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172205108	E0605	10/25/2022 9:27:13	2821.53	08329.52	13.6	13.1	3.0	30.02	47.10
172205109	E0611	10/25/2022 12:53:43	2825.01	08358.22	19.5	19.3	3.1	30.03	354.91
172205110	E0609	10/25/2022 15:05:10	2833.43	08357.10	18.4	18.3	3.0	30.03	20.61
172205111*	E0606	10/25/2022 17:57:22	2831.97	08338.94	15.0	14.4	3.0	6.30	0.00
172205112	E0604	10/25/2022 20:12:01	2836.97	08328.54	12.6	12.3	3.0	30.02	27.78
172205113	E0602	10/25/2022 22:14:26	2848.26	08333.54	11.7	11.3	2.9	30.03	15.29
172205114	E0703	10/26/2022 1:18:37	2906.86	08345.24	10.2	10.5	3.0	30.02	47.64
172205115	E0702	10/26/2022 3:21:38	2916.95	08351.15	11.3	11.0	3.0	30.02	55.99
172205116	E0704	10/26/2022 5:57:24	2931.03	08359.92	10.9	11.2	3.0	30.02	99.43
172205117	E0705	10/26/2022 8:33:53	2926.34	08408.82	12.8	12.9	3.1	30.02	56.42
172205118	E0706	10/26/2022 11:19:00	2914.34	08404.47	13.5	13.0	3.0	30.05	218.83
172205119	E0708	10/26/2022 13:47:27	2909.64	08418.24	15.2	15.2	3.1	30.17	52.72
172205120	E0709	10/26/2022 15:55:28	2901.19	08418.02	15.6	15.5	3.0	30.07	57.17
172205121	E0610	10/26/2022 18:05:20	2856.01	08427.34	19.6	18.8	3.0	30.02	14.89
172205122	E0711	10/26/2022 20:42:04	2904.44	08440.39	20.0	19.9	3.0	30.00	211.87
172205123	E0712	10/26/2022 23:27:05	2902.14	08458.32	23.5	23.1	3.0	30.02	22.91
172205124	E0808	10/27/2022 2:32:08	2907.26	08516.94	21.0	20.4	3.0	30.00	21.38
172205125	E0806	10/27/2022 5:23:46	2920.62	08524.50	16.5	19.5	3.1	30.03	31.51

SEAMAP SEQUENCE NUMBER	SEAMAP STATION NUMBER	START TIME (GMT)	START LATITUDE	START LONGITUDE	START DEPTH (F)	END DEPTH (F)	SPEED (knts)	TOW TIME (min)	CATCH TOTAL (kg)
172205126	E0801	10/27/2022 7:50:00	2932.13	08518.91	7.8	9.8	2.8	30.03	33.35
172205127	E0804	10/27/2022 10:42:23	2935.30	08540.32	16.3	16.0	3.1	30.10	29.96
172205128	E0805	10/27/2022 13:28:31	2949.87	08549.08	19.1	17.8	3.0	30.02	16.67
172205129	E0802	10/27/2022 16:42:38	3012.56	08553.22	9.1	9.9	2.9	30.02	24.82
172205130	E0902	10/27/2022 21:04:16	3013.29	08633.37	14.0	15.3	2.9	30.00	8.97
172205131	E0903	10/27/2022 23:06:05	3012.10	08646.57	17.8	15.2	3.0	30.02	10.91
172205132	E0901	10/28/2022 1:34:59	3020.26	08658.86	11.3	10.7	3.0	30.02	34.52
172205133	E1002	10/28/2022 3:59:30	3010.33	08713.08	14.8	15.7	3.0	30.00	24.64
172205134	E1004	10/28/2022 9:02:28	2952.10	08752.52	18.3	18.9	3.1	30.02	53.69
172205135	E1107	10/28/2022 11:55:35	2952.94	08812.74	18.1	18.6	3.1	30.02	29.92
172205136	E1105	10/28/2022 14:06:42	3005.06	08814.32	10.9	10.7	2.9	30.05	55.47
172205137	E1102	10/28/2022 16:01:52	3010.34	08809.24	7.3	6.9	2.9	30.02	101.77
172205138	E1103	10/28/2022 17:31:55	3011.11	08815.83	8.2	7.5	3.0	30.02	14.90
172205139	E1101	10/28/2022 19:16:48	3010.15	08829.15	7.2	6.9	3.0	30.00	20.88