

**Center for Fisheries Research & Development - Gulf Coast Research Laboratory
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SEAMAP Summer Shrimp/Groundfish Survey, *R/V Tommy Munro*, Cruise 0903

Introduction - Trawl sampling for the East Delta Summer Shrimp/Groundfish Survey was conducted from June 2, 2009, through June 4, 2009. A total of 17 day and 10 night stations were sampled, with tow times ranging from 10 to 30 minutes depending on depth strata coverage.

Objectives

- Conduct summer trawl 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 NMFS 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 10 to 30 minutes after lockdown in order to sample the appropriate depth stratum. Sample and data processing was conducted in accordance with the SEAMAP Operations Manual. Data were entered using the Fisheries Scientific Computer System. Environmental data were collected in conjunction with each trawl. Temperature, dissolved oxygen, and salinity values were measured and recorded, along with meteorological conditions.

Results - A total of 24,116 organisms were collected in 27 trawl samples. Time, location and depth data are presented in Table 1. Species catch data are presented in Table 2.

Deviations - There were no deviations from standard SEAMAP protocol.

Cruise participants - USM/GCRL/CFRD

Submitted By:



Read Hendon, Principal Investigator

Table 1. Time, location and depth data for 40-ft trawl samples collected aboard *R/V Tommy Munro*, SEAMAP Cruise Number 0903, June 2-4, 2009.

SEAMAP Station No.	Trawl Start Time (GMT)	Start Latitude	Start Longitude	Stop Latitude	Stop Longitude	Start Depth	Stop Depth	Tow Time
ED18	6/2/2009 12:46	2918.67	8850.13	2917.58	8848.74	26.0	30.0	30.25
ED08	6/2/2009 16:27	2922.67	8851.64	2922.45	8851.09	12.0	13.0	10.95
ED19	6/2/2009 18:44	2923.42	8836.87	2922.09	8836.07	29.0	31.0	30.03
ED16	6/2/2009 21:19	2929.43	8838.54	2928.79	8838.09	19.0	21.0	16.67
ED15	6/2/2009 23:20	2930.28	8838.28	2930.07	8837.53	17.0	19.0	13.37
ED12	6/3/2009 0:41	2930.90	8837.93	2930.56	8837.44	16.0	19.0	10.67
EN09	6/3/2009 2:40	2926.81	8845.76	2926.31	8845.44	12.0	14.0	12.67
EN08	6/3/2009 4:09	2932.16	8839.40	2931.92	8838.90	12.0	13.0	10.12
EN16	6/3/2009 7:08	2943.99	8821.31	2942.73	8820.21	19.0	21.0	30.03
EN10	6/3/2009 10:44	2945.13	8835.16	2944.30	8833.96	14.0	15.0	25.08
ED10	6/3/2009 11:56	2945.42	8835.20	2945.33	8833.88	14.0	15.0	20.65
ED26	6/3/2009 15:19	2936.42	8858.79	2936.05	8858.32	3.5	4.2	10.97
ED03	6/3/2009 17:03	2938.41	8847.69	2937.76	8846.15	7.5	7.8	29.62
ED13	6/3/2009 19:21	2934.19	8834.50	2934.13	8833.92	17.0	19.0	10.43
ED17	6/3/2009 21:08	2937.79	8827.24	2936.35	8827.00	22.0	22.0	29.77
ED14	6/3/2009 22:46	2941.25	8831.18	2941.08	8829.81	18.0	19.0	24.13
ED07	6/4/2009 0:44	2950.05	8839.21	2950.14	8837.48	11.0	11.0	28.48
EN06	6/4/2009 1:54	2950.22	8840.95	2950.22	8839.94	9.9	11.0	15.3
EN03	6/4/2009 3:20	2957.65	8845.71	2958.00	8844.48	7.3	7.9	24.07
EN01	6/4/2009 4:28	2957.87	8847.54	2957.90	8846.61	5.1	6.2	15.37
EN02	6/4/2009 5:52	3004.22	8848.82	3004.57	8848.17	6.4	7.0	11.85
EN04	6/4/2009 7:30	3007.23	8836.85	3006.00	8836.72	7.9	8.7	24.43
EN05	6/4/2009 10:12	3006.45	8828.93	3005.81	8829.10	8.3	9.1	12.88
ED11	6/4/2009 11:40	2958.39	8828.59	2957.39	8826.99	15.0	16.0	30.82
ED09	6/4/2009 13:17	3001.83	8826.01	3001.33	8825.64	12.0	13.0	12.6
ED04	6/4/2009 14:56	3006.97	8835.34	3005.47	8835.28	8.2	9.0	21.65
ED02	6/4/2009 20:59	3009.51	8851.20	3007.84	8850.48	6.1	7.1	33.22

Table 2. Species collected in 40-ft trawls aboard R/V Tommy Munro, SEAMAP Cruise Number 0903, June 2-4, 2009.

Species	Total
<i>ALOSA CHRYSOCHLORIS</i>	17
<i>ANCHOA HEPSETUS</i>	2045
<i>ANCHOA MITCHILLI</i>	281
<i>BALISTES CAPRISCUS</i>	1
<i>BREGMACEROS ATLANTICUS</i>	1
<i>BROTULA BARBATUM</i>	8
<i>CALAPPA SULCATA</i>	6
<i>CALLINECTES SAPIDUS</i>	24
<i>CALLINECTES SIMILIS</i>	204
<i>CENTROPRISTIS PHILADELPHICUS</i>	300
<i>CHAETODIPTERUS FABER</i>	1
<i>CHLOROSCOMBRUS CHRYSURUS</i>	140
<i>CHRYSAORA QUINQUECIRRHA</i>	1
<i>CITHARICHTHYS SPILOPTERUS</i>	3
<i>CYCLOPSETTA CHITTENDENI</i>	9
<i>CYNOSCION ARENARIUS</i>	650
<i>CYNOSCION NOTHUS</i>	316
<i>DECAPTERUS PUNCTATUS</i>	14
<i>DIPLECTRUM BIVITTATUM</i>	28
<i>ECHENEIS NAUCRATES</i>	1
<i>ETROPUS CROSSOTUS</i>	13
<i>ETROPUS CYCLOSQUAMUS</i>	6
<i>ETRUMEUS TERES</i>	134
<i>EUCINOSTOMUS GULA</i>	13
<i>HALIEUTICHTHYS ACULEATUS</i>	2
<i>HARENGULA JAGUANA</i>	1318
<i>HEPATUS EPHELITICUS</i>	2
<i>LAGODON RHOMBOIDES</i>	433
<i>LARIMUS FASCIATUS</i>	169
<i>LEIOSTOMUS XANTHURUS</i>	1304
<i>LEPOPHIDIUM BREVIBARBE</i>	4
<i>LIBINIA EMARGINATA</i>	1
<i>LOLIGO PEALEII</i>	291
<i>LOLIGO PLEII</i>	339
<i>LOLLIGUNCULA BREVIS</i>	205
<i>LUIDIA CLATHRATA</i>	121
<i>LUTJANUS CAMPECHANUS</i>	13
<i>LUTJANUS SYNAGRIS</i>	7
<i>MENTICIRRHUS AMERICANUS</i>	1
<i>METOPORHAPHIS CALCARATA</i>	3
<i>MICROPOGONIAS UNDULATUS</i>	8239
<i>MUSTELUS CANIS</i>	2
<i>NARCINE BRASILIENSIS</i>	1
<i>OPHIDION WELSHI</i>	1
<i>OPISTHONEMA OGLINUM</i>	20

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Table 2. Species collected in 40-ft trawls aboard R/V Tommy Munro, SEAMAP Cruise Number 0903, June 2-4, 2009. (continued)

Species	Total
<i>OVALIPES FLORIDANUS</i>	1
<i>PARALICHTHYS LETHOSTIGMA</i>	1
<i>PARAPENAEUS POLITUS</i>	48
<i>PENAEUS AZTECUS</i>	619
<i>PENAEUS DUORARUM</i>	31
<i>PENAEUS SETIFERUS</i>	323
<i>PEPRILUS BURTI</i>	571
<i>PORTUNUS GIBBESII</i>	71
<i>PORTUNUS SPINIMANUS</i>	17
<i>PRIONOTUS LONGISPINOSUS</i>	146
<i>PRIONOTUS RUBIO</i>	4
<i>PRIONOTUS STEARNSI</i>	60
<i>PRIONOTUS TRIBULUS</i>	20
<i>RENILLA MULLERI</i>	208
<i>RHINOPTERA BONASUS</i>	1
<i>RHIZOPRIONODON TERRAENOVAE</i>	1
<i>SAURIDA BRASILIENSIS</i>	270
<i>SCOMBEROMORUS MACULATUS</i>	1
<i>SELAR CRUMENOPHTHALMUS</i>	4
<i>SELENE SETAPINNIS</i>	95
<i>SELENE VOMER</i>	24
<i>SERRANUS ATROBRANCHUS</i>	14
<i>SICYONIA DORSALIS</i>	44
<i>SICYONIA PARRI</i>	1
<i>SOLENOCERA VIOSCAI</i>	34
<i>SPEOCARCINUS LOBATUS</i>	3
<i>SPHOEROIDES PARVUS</i>	10
<i>SPHYRAENA GUACHANCHO</i>	3
<i>SQUILLA CHYDAEA</i>	13
<i>SQUILLA EMPUSA</i>	92
<i>STELLIFER LANCEOLATUS</i>	8
<i>STENOTOMUS CAPRINUS</i>	2174
<i>SYACIUM GUNTERI</i>	66
<i>SYMPHURUS PLAGIUSA</i>	7
<i>SYNGNATHUS LOUISIANAE</i>	1
<i>SYNODUS FOETENS</i>	111
<i>TRACHURUS LATHAMI</i>	19
<i>TRACHYPENEUS CONSTRICTUS</i>	27
<i>TRACHYPENEUS SIMILIS</i>	963
<i>TRICHIURUS LEPTURUS</i>	1316
<i>UPENEUS PARVUS</i>	2
TOTAL NUMBER COLLECTED	24,116