

**Center for Fisheries Research & Development - Gulf Coast Research Laboratory
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SEAMAP Summer Shrimp/Groundfish Survey, *R/V Tommy Munro*, Cruise 1001

Introduction - Trawl sampling for the 2010 East Delta Summer Shrimp/Groundfish Survey was conducted from May 31, 2010, through June 2, 2010. A total of 17 stations were sampled under the revised SEAMAP protocol (no day/night designation and 30-minute straight tow time per station). Due to impacts from the Deepwater Horizon oil leak, NOAA determined that its vessels would sample areas in the southern portion of Mississippi's historical SEAMAP sampling area in the Mississippi Bight. In response to NOAA's efforts there, Mississippi researchers shifted trawl efforts to the east to sample off Alabama and Florida to support those states' surveys.

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 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 were 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 99,132 organisms were collected in 17 trawl samples. Time, location and depth data are presented in Table 1. Species catch data are presented in Table 2.

Deviations – None

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 1001, May 31 – June 2, 2010.

SEAMAP Station No.	Trawl Start Time (GMT)	Start Latitude	Start Longitude	Stop Latitude	Stop Longitude	Start Depth	Stop Depth	Tow Time (min)
E1103	05/31/2010 11:48:05	3009.15	08823.53	3008.27	08822.13	8.8	8.3	30.1
E1107	05/31/2010 15:01:17	2957.64	08829.74	2956.25	08830.19	11.0	11.0	30.0
E1109	05/31/2010 16:53:01	2954.35	08832.74	2953.38	08832.54	11.0	11.0	29.7
E1112	05/31/2010 18:30:20	2951.08	08831.77	2949.73	08831.31	11.0	11.0	30.6
E1113	05/31/2010 20:18:47	2949.42	08824.87	2948.55	08823.45	11.0	11.0	30.4
E1001	06/01/2010 3:17:05	3013.78	08743.03	3013.09	08741.98	6.6	6.6	29.6
E1102	06/01/2010 5:53:48	3012.31	08725.13	3011.02	08724.16	8.7	11.0	30.6
E1008	06/01/2010 9:01:47	2951.90	08729.96	2950.52	08729.06	17.0	17.0	30.7
E1005	06/01/2010 11:28:36	3000.07	08716.31	3001.30	08716.53	16.0	16.0	30.0
E1004	06/01/2010 14:03:01	3000.11	08716.22	2958.69	08716.69	15.0	17.0	30.0
E1003	06/01/2010 15:56:56	3006.49	08713.10	3007.92	08712.45	15.0	16.0	29.8
E0902	06/01/2010 19:52:56	3017.46	08657.62	3016.34	08656.43	15.0	15.0	30.6
E0901	06/01/2010 21:31:09	3019.65	08648.68	3018.36	08647.76	10.9	10.9	30.3
E0905	06/01/2010 23:10:33	3013.21	08648.14	3013.18	08646.40	10.9	14.0	30.0
E0904	06/01/2010 18:21:04	3014.84	08658.30	3013.59	08657.10	15.0	15.0	30.8
E1101	05/31/2010 7:00:07	3009.72	08838.15	3008.29	08837.73	7.6	7.3	30.1
E0903	06/02/2010 2:27:22	3016.75	08617.98	3017.58	08616.40	13.0	13.0	30.1

Table 2. Species collected in 40-ft trawls aboard *R/V Tommy Munro*, SEAMAP Cruise Number 1001, May 31 – June 2, 2010.

SPECIES	TOTAL NO.
<i>ALUTERUS SCHOEPFI</i>	2
<i>ALUTERUS SCRIPTUS</i>	5
<i>ANCHOA HEPSETUS</i>	128
<i>ANCHOA LYOLEPIS</i>	2
<i>ANCYLOPSETTA QUADROCELLATA</i>	7
<i>APOGON PSEUDOMACULATUS</i>	16
<i>ARBACIA PUNCTULATA</i>	40
<i>ARGOPECTEN GIBBUS</i>	9
<i>ARIUS FELIS</i>	43
<i>ASTEROIDEA</i>	4
<i>CALAMUS BAJONADO</i>	24
<i>CALLINECTES SAPIDUS</i>	3
<i>CALLINECTES SIMILIS</i>	114
<i>CARCHARHINUS ACRONOTUS</i>	1
<i>CENTROPRISTIS PHILADELPHICUS</i>	172
<i>CENTROSTEPHANUS LONGISPINOSUS</i>	4
<i>CHILOMYCTERUS SCHOEPFI</i>	1
<i>CHROMIS SCOTTI</i>	1
<i>CITHARICHTHYS MACROPS</i>	28
<i>CITHARICHTHYS SPILOPTERUS</i>	28
<i>CYCLOPSETTA CHITTENDENI</i>	4
<i>CYNOSCION ARENARIUS</i>	12
<i>CYNOSCION NOTHUS</i>	9
<i>DECAPTERUS MACARELLUS</i>	3
<i>DIPLECTRUM BIVITTATUM</i>	60
<i>DIPLECTRUM FORMOSUM</i>	15
<i>DROMIDIA ANTILLENIS</i>	1
<i>ECHINODERMATA</i>	1
<i>ENCOPE MICHELINI</i>	1
<i>EQUETUS LANCEOLATUS</i>	4
<i>ETROPUS CROSSOTUS</i>	10
<i>ETROPUS MICROSTOMUS</i>	14
<i>GASTROPODA</i>	4
<i>GYMNOTHORAX SAXICOLA</i>	1
<i>HAEMULON AUROLINEATUM</i>	141
<i>HARENGULA JAGUANA</i>	17
<i>HEMIPTERONOTUS NOVACULA</i>	3
<i>HERMODICE CARUNCULATA</i>	1
<i>LACTOPHRYS QUADRICORNIS</i>	9
<i>LAGODON RHOMBOIDES</i>	6
<i>LEIOSTOMUS XANTHURUS</i>	2
<i>LEPOPHIDIUM BREVIBARBE</i>	1
<i>LOLIGO PEALEII</i>	86
<i>LOLIGO PLEII</i>	4387
<i>LOLLIGUNCULA BREVIS</i>	353
<i>LUIDIA CLATHRATA</i>	8
<i>LUTJANUS CAMPECHANUS</i>	15
<i>LUTJANUS SYNAGRIS</i>	1
<i>MENTICIRRHUS AMERICANUS</i>	2
<i>MENTICIRRHUS SAXATILIS</i>	2
<i>MICROPOGONIAS UNDULATUS</i>	134

(continued next page)

Table 2. Species collected in 40-ft trawls aboard *R/V Tommy Munro*, SEAMAP Cruise Number 1001, May 31 – June 2, 2010. (continued)

SPECIES	TOTAL NO.
<i>MONACANTHUS HISPIDUS</i>	1
<i>MYLIOBATIS FREMINVILLII</i>	1
<i>NARCINE BRASILIENSIS</i>	14
<i>OPHIDION GRAYI</i>	17
<i>OPHIDION HOLBROOKI</i>	28
<i>OPISTHONEMA OGLINUM</i>	8
<i>OVALIPES FLORIDANUS</i>	27
<i>PAGRUS PAGRUS</i>	108
<i>PARALICHTHYS ALBIGUTTA</i>	8
<i>PARALICHTHYS LETHOSTIGMA</i>	4
<i>PENAEUS AZTECUS</i>	97
<i>PENAEUS DUORARUM</i>	64
<i>PENAEUS SETIFERUS</i>	41
<i>PEPRILUS BURTI</i>	77962
<i>PERCIFORMES</i>	8
<i>PHTHEIRICHTHYS LINEATUS</i>	2
<i>PORTUNUS GIBBESII</i>	269
<i>PORTUNUS SPINICARPUS</i>	80
<i>PORTUNUS SPINIMANUS</i>	4
<i>PRIONOTUS LONGISPINOSUS</i>	29
<i>PRIONOTUS OPHRYAS</i>	4
<i>PRIONOTUS RUBIO</i>	15
<i>PRIONOTUS SCITULUS</i>	819
<i>PRIONOTUS TRIBULUS</i>	30
<i>PSEUDOMEDAEUS AGASSIZII</i>	4
<i>SCOMBEROMORUS MACULATUS</i>	1
<i>SCORPAENA BRASILIENSIS</i>	20
<i>SCYLLARIDES NODIFER</i>	4
<i>SICYONIA BREVIROSTRIS</i>	918
<i>SPEOCARCINUS LOBATUS</i>	10
<i>SPHOEROIDES PARVUS</i>	57
<i>SQUILLA EMPUSA</i>	175
<i>SQUILLIDAE</i>	4
<i>STENOTOMUS CAPRINUS</i>	10660
<i>SYACIUM GUNTERI</i>	8
<i>SYACIUM PAPILLOSUM</i>	1
<i>SYMPHURUS PLAGIUSA</i>	1
<i>SYNODUS FOETENS</i>	128
<i>SYNODUS INTERMEDIUS</i>	4
<i>TRACHINOCEPHALUS MYOPS</i>	54
<i>TRACHURUS LATHAMI</i>	743
<i>TRACHYPENEUS SIMILIS</i>	241
<i>TRICHIURUS LEPTURUS</i>	512
<i>UROPHYCIS FLORIDANUS</i>	8
CRUISE TOTAL NUMBER	99132