

**Florida SEAMAP Summer 2013 Survey Cruise Report (6/8/13 – 6/25/13)**  
*Cruise Number 171302 using the R/V Tommy Munro*

*Prepared by:*  
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## **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.

The long-term goal of the Florida SEAMAP trawl program is to collect a full complement of seasonal trawl samples in the eastern Gulf of Mexico encompassing NMFS statistical zones 2 – 10. Before fully implementing the Florida SEAMAP trawl program in 2010, two years of exploratory surveys were conducted to validate the feasibility of sampling these zones as well as the most appropriate season (summer or fall) within which to conduct trawl surveys. Based on a preliminary examination of data collected in 2008 and 2009, it was decided that from 2010 onward the Florida SEAMAP trawl survey will occur in summer. Although trawling in fall was logistically feasible, overall catch and species diversity was greatest in summer, and so summer surveys will likely provide the most comprehensive data set. Fall catch rates were higher for select taxa (i.e., red snapper), and so the implementation of a recurring fall Florida SEAMAP trawl survey is recommended should additional funds become available.

## **Objectives**

1. Conduct a trawl survey to collect information on shrimp and groundfish abundance/distribution with standard SEAMAP 42-ft 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, precipitation) in conjunction with trawl sampling.
5. Code all data according to approved NMFS SEAMAP Operations Manual guidelines, and enter data on the NMFS SEAMAP data entry system.
6. Submit data to the Gulf States Marine Fisheries Commission/NMFS Data Manager.

## Methods

Beginning in 2010, a new survey design was implemented for the Gulf-wide SEAMAP trawl survey. Overall sampling effort was allocated proportionally among NMFS statistical reporting zones based on proportional availability of sampling habitat (5 – 60 fathoms). Within each NMFS zone, specific sampling sites were chosen following a simple random survey design.

At each sampling station, trawl samples were collected using standard 42-foot SEAMAP trawls (1.58 inch stretched mesh towed at a 5:1 cable length to water depth ratio). At sites where the bottom composition was unknown, an exploratory survey of the bottom using the fathometer on the R/V Tommy Munro was conducted prior to deploying the 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 Operational Manual guidelines. In addition, specimens were retained to validate field identifications and provide biological material for various life-history studies (i.e., age and growth, reproduction, diet, mercury concentration). Environmental data (temperature, salinity, pH, and dissolved oxygen) were measured in association with each trawl event using a CTD or YSI.

## Results

During the summer 2013 survey, Florida sampled a total of 152 stations, which included 139 stations with reportable catch and 13 stations with zero catch due to gear damage. Total catch weight for the trip was 9,066 kg. Individual trawl catch weights ranged from 1.5 kg to 608.7 kg. Over 88,000 animals were collected, including 1,238 pink shrimp, 1 brown shrimp, 4 white shrimp, 28 red snapper, and 391 red lionfish, which occurred in 61 of the 139 stations with reportable catch. The three most abundant species collected were pinfish (n=10,248; 29% occurrence), arrow squid (n=7,369; 82% occurrence) and brown rock shrimp (n=6,665; 47% occurrence).

In addition to following standard SEAMAP sampling protocols, we collected ancillary material for various life history studies. Otoliths were removed from 942 managed fishes for ageing analyses, including 718 Lutjanids and 72 Serranids. In addition, 17 spines were removed from managed fishes for alternative aging techniques. Gonads were removed from 66 fish for reproductive staging and 92 fin clip or tissue samples were taken for genetic analysis. Tissue samples were collected from 1,563 fish for mercury

analyses and 895 stomachs were removed for dietary analyses from a wide variety of managed and non-managed species. Four hundred thirty two samples were also collected for cooperative research requests from various federal and state institutions. These samples included whole fish for the National Marine Fisheries Service Panama City Lab, frozen fish and fin clips for the Gulf Coast Research Lab, and tissue samples for USF.

### **Quality Control**

A total of 7,391 animals were frozen or preserved and brought back to FWRI. Of those animals 1,601 fishes were kept as representative samples and an additional 2,347 fishes were brought back to be further identified in the lab. In addition to fishes, 3,443 invertebrates were brought back for confirmation of identification.

### **Deviations**

Twenty three stations were not sampled because of the known presence of hard and/or live bottom. Thirteen stations were sampled and aborted due to hard bottom and/or gear damage. All stations sampled were completed according to the NMFS SEAMAP protocol.

### **Cruise participants**

Florida Fish and Wildlife Conservation Commission, Fish and Wildlife Research Institute Personnel collected all samples. Sample summary and data entry were completed by Chris Stafford.

Submitted By:

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*Robert McMichael*  
SEAMAP Coordinator

**Table 1. Florida SEAMAP Summer 2013 Shrimp/Groundfish Cruise Summary**

SEAMAP Station Number	START TIME (GMT)	START LAT (DDMM.MM)	START_LON (DDMM.MM)	DEPTH (m)	TOW TIME (Mins)	TOTAL CATCHT (kg)	FISH CATCH (kg)	CRUST. CATCH (kg)	OTHER CATCH (kg)
E1001	06/08/2013 4:15:50	3013.22	08702.54	26.6	30.02	30.175	19.752	9.267	1.156
E1002	06/08/2013 5:58:16	3012.95	08703.12	27.9	30.13	30.178	20.263	9.172999	0.742
E0905	06/08/2013 8:31:19	3008.21	08651.80	43.1	30.17	34.600	29.803	1.789	3.008
E0903	06/08/2013 11:18:53	3015.60	08636.15	24.6	30.28	7.875	7.559	0.012	0.304
E0901	06/08/2013 13:18:12	3022.81	08631.54	8	30.08	5.714	5.516	0.058	0.140
E0902	06/08/2013 14:41:51	3020.23	08628.43	23.8	30.05	40.310	20.292	0.269	19.749
E0904	06/08/2013 16:38:11	3014.35	08622.11	30.6	30.12	5.166999	2.976	0.001	2.190
E0801	06/08/2013 19:55:53	3009.45	08557.11	24.1	30.15	0.000	0.000	0.000	0.000
E0802	06/08/2013 22:05:32	3003.76	08551.52	26.9	30.12	0.000	0.000	0.000	0.000
E0806	06/09/2013 5:11:31	2926.63	08509.21	22.8	30.12	44.53801	38.794	5.222	0.522
E0805	06/09/2013 6:55:20	2928.67	08503.49	13.3	30.03	22.106	16.464	4.926	0.716
E0714	06/09/2013 9:13:52	2924.35	08453.40	24.9	30.17	46.37401	38.628	6.028	1.718
E0716	06/09/2013 10:45:44	2921.34	08454.15	24.6	30.02	87.06601	82.50401	0.196	4.366
E0807	06/09/2013 12:50:36	2915.44	08500.75	29.6	30.05	24.068	22.166	0.012	1.890
E0808	06/09/2013 14:56:14	2914.18	08512.66	33.6	29.98	5.116	2.366	0.085	2.665
E0721	06/09/2013 18:14:56	2903.99	08457.01	34.4	30.23	8.928	8.120001	0.144	0.664
E0718	06/09/2013 20:22:37	2909.11	08447.26	34.8	30.13	27.227	8.453	0.510	18.264
E0719	06/09/2013 22:12:16	2909.07	08441.34	33.5	30.15	117.753	23.203	0.224	94.32599
E0720	06/10/2013 1:24:32	2901.72	08423.38	29.8	30.02	0.000	0.000	0.000	0.000
E0621	06/10/2013 4:34:11	2853.22	08437.34	40.9	30.02	66.09399	30.336	18.174	17.584
E0622	06/10/2013 6:38:26	2851.09	08438.35	42.6	30.13	57.02101	34.806	14.091	8.124
E0620	06/10/2013 8:45:03	2856.47	08446.68	42.3	30.15	50.209	32.581	14.713	2.915
E0623	06/10/2013 11:45:14	2844.85	08437.81	42	30.03	55.72399	16.014	0.152	39.558
E0624	06/10/2013 14:02:13	2842.46	08434.49	44	30.03	20.034	12.470	0.007	7.557
E0625	06/10/2013 17:00:44	2834.52	08449.48	53.6	30.07	12.204	6.092	0.287	5.825
E0626	06/10/2013 19:04:35	2833.62	08440.76	55	30.12	15.070	8.214002	0.097	6.759
E0627	06/10/2013 22:28:05	2824.87	08422.31	43.8	30.02	43.710	2.528	0.040	41.142

SEAMAP Station Number	START TIME (GMT)	START LAT (DDMM.MM)	START_LON (DDMM.MM)	DEPTH (m)	TOW TIME (Mins)	TOTAL CATCHT (kg)	FISH CATCH (kg)	CRUST. CATCH (kg)	OTHER CATCH (kg)
E0628	06/11/2013 0:00:12	2822.85	08423.78	49.9	30.08	4.324	3.674	0.104	0.5459999
E0629	06/11/2013 2:39:56	2813.10	08420.96	56	29.92	29.676	21.442	5.929999	2.304
E0630	06/11/2013 4:52:08	2811.33	08430.28	67.7	30.13	43.14401	31.622	2.328	9.194
E0512	06/11/2013 8:02:36	2756.56	08417.98	63.1	30.32	40.45901	27.849	2.346	10.264
E0515	06/11/2013 10:18:12	2747.89	08418.99	67.2	30.22	31.359	22.409	0.104	8.846
E0513	06/11/2013 13:13:18	2752.99	08401.95	51.8	30.02	20.56201	14.063	0.6589999	5.840
E0514	06/11/2013 16:03:14	2749.48	08346.64	42.5	30.05	14.658	7.848	0.013	6.797
E0518	06/11/2013 18:55:20	2734.98	08402.12	61.4	30.08	21.672	15.266	0.008	6.398
E0519	06/11/2013 20:24:42	2731.82	08405.76	68	30.12	19.528	16.371	0.005	3.152
E0517	06/11/2013 22:56:29	2735.72	08418.78	80	30.03	11.828	10.954	0.038	0.836
E0521	06/12/2013 2:27:12	2715.57	08403.46	71.8	29.9	31.066	26.424	2.084	2.558
E0524	06/12/2013 5:02:34	2703.87	08410.28	103.3	30	12.680	9.277999	0.702	2.700
E0522	06/12/2013 7:49:54	2710.53	08356.81	70.5	30.15	32.420	24.602	2.408	5.410
E0520	06/12/2013 11:10:16	2716.91	08334.18	47.4	30.02	150.384	16.767	1.801	131.816
E0523	06/12/2013 13:34:17	2706.92	08338.55	54.3	30	8.366	4.950	0.055	3.361
E0525	06/12/2013 15:04:33	2704.18	08340.74	56.8	30.02	12.723	6.502	0.103	6.118001
E0526	06/12/2013 16:42:02	2703.14	08339.17	56.8	30.13	33.89899	17.578	0.943	15.378
E0416	06/12/2013 19:11:31	2651.70	08351.42	74.8	30.13	17.800	15.650	0.008	2.142
E0419	06/12/2013 21:29:21	2640.88	08343.75	69.8	30.12	26.792	17.642	0.012	9.138
E0420	06/12/2013 23:02:22	2635.69	08345.35	76.2	30.02	35.72601	29.650	0.010	6.066
E0425	06/13/2013 2:08:52	2621.12	08351.49	103.7	30.35	15.368	11.816	1.192	2.360
E0423	06/13/2013 3:58:34	2620.29	08348.56	91.2	29.98	17.730	14.810	1.690	1.230
E0424	06/13/2013 6:20:33	2620.02	08337.03	65.7	30.18	104.798	22.434	0.9639999	81.39999
E0428	06/13/2013 9:18:55	2602.42	08333.83	69	30.22	28.774	22.952	2.272	3.550
E0320	06/13/2013 11:01:55	2559.04	08336.47	70	30.07	9.979999	6.550	0.066	3.364
E0321	06/13/2013 13:15:58	2551.49	08338.09	70.5	30.02	68.898	8.518	0.056	60.324
E0322	06/13/2013 15:10:49	2550.57	08341.87	86	30.02	19.071	7.950	0.004	11.117
E0324	06/13/2013 17:55:43	2537.19	08338.63	74.8	30.12	9.986999	2.953	0.400	6.634
E0327	06/13/2013 21:01:17	2518.64	08335.75	74.3	30.07	5.819999	3.211	0.041	2.568

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E0328	06/13/2013 23:29:09	2518.15	08324.46	66.3	29.9	5.605999	0.8179999	0.018	4.770
E0333	06/14/2013 1:36:49	2508.14	08325.76	66.8	30.05	56.388	29.236	3.578	23.574
E0336	06/14/2013 3:35:58	2500.67	08324.71	66.8	30.1	60.708	26.350	3.926	30.432
E0208	06/14/2013 6:39:45	2438.97	08325.95	60	30.27	133.322	23.324	0.269	109.729
E0209	06/14/2013 8:30:04	2435.85	08322.92	61.8	30.28	58.398	13.986	1.290	43.12199
E0206	06/14/2013 10:48:00	2444.16	08315.73	62.1	30.03	26.524	4.698	0.084	21.742
E0207	06/14/2013 12:28:27	2442.19	08311.75	58.9	30.13	27.633	20.474	1.919	5.240
E0205	06/14/2013 14:22:04	2445.67	08306.08	53	29.98	39.609	7.276	0.576	31.757
E0204	06/14/2013 17:21:52	2458.41	08252.48	45	30.13	15.497	6.306	0.019	9.172001
E0201	06/14/2013 20:14:48	2456.98	08229.04	30.9	30.1	5.807	2.228	0.219	3.360
E0203	06/14/2013 22:31:39	2450.73	08213.65	24.1	30.02	113.386	113.140	0.164	0.082
E0202	06/15/2013 0:00:13	2453.12	08208.27	22.6	30	127.500	126.8379	0.486736	0.175404
E0319	06/15/2013 1:59:52	2501.48	08206.24	21.1	30	25.408	23.520	0.468	1.420
E0315	06/15/2013 5:28:20	2507.64	08230.52	34.9	30.15	60.26199	22.702	8.248	29.312
E0331	06/15/2013 7:16:38	2510.07	08238.83	39	30.23	63.70499	27.571	4.162	31.972
E0332	06/15/2013 8:59:39	2508.70	08243.95	41.5	30.13	142.111	28.170	3.933	110.008
E0335	06/15/2013 11:38:23	2504.05	08259.82	43.4	30.1	17.914	13.695	0.198	4.021
E0334	06/15/2013 13:47:23	2504.82	08308.73	58.5	29.98	32.488	8.995002	0.086	23.407
E0330	06/15/2013 16:39:41	2516.81	08311.52	60	30.07	22.110	8.009	0.074	14.027
E0329	06/15/2013 18:05:53	2517.88	08312.18	59.6	30.1	42.737	5.754001	0.016	36.967
E0325	06/15/2013 20:56:05	2533.25	08310.58	58.5	30.08	37.816	24.601	0.027	13.188
E0323	06/16/2013 0:27:59	2550.06	08256.60	45.6	30	72.607	31.835	1.108	39.664
E0427	06/16/2013 3:19:41	2605.86	08307.47	49.6	30.07	84.006	52.856	3.102	28.048
E0426	06/16/2013 5:27:32	2612.12	08302.66	43.9	30.33	92.090	61.57399	1.500	29.016
E0422	06/16/2013 7:48:31	2622.31	08301.11	39.6	30.3	85.12398	49.80201	1.636	33.68599
E0421	06/16/2013 10:23:57	2625.50	08317.31	51	30.02	43.56999	14.647	0.238	28.685
E0417	06/16/2013 14:03:48	2647.47	08321.51	50.9	30.02	312.950	23.943	0.373	288.634
E0415	06/16/2013 16:27:50	2653.71	08315.51	44.6	30.23	116.828	24.558	1.185	91.085
E0414	06/16/2013 18:02:09	2656.64	08322.34	48.5	30.15	41.138	5.022001	0.525	35.591
E0507	06/16/2013 22:09:47	2722.46	08301.90	20.4	30.08	21.136	12.282	0.128	8.726

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E0508	06/18/2013 22:01:45	2707.65	08255.85	25.1	30.2	40.302	32.266	0.000	8.035999
E0510	06/18/2013 23:34:10	2704.51	08255.99	26.9	30.13	23.000	17.522	0.462	5.016
E0511	06/19/2013 3:03:19	2701.09	08228.68	10.3	30.17	0.000	0.000	0.000	0.000
E0403	06/19/2013 5:08:16	2651.93	08238.53	20.6	30.17	57.618	55.118	0.860	1.640
E0404	06/19/2013 7:42:28	2638.72	08234.84	20.8	29.72	41.341	37.087	0.720	3.534
E0406	06/19/2013 10:25:56	2625.38	08225.04	17.1	30.05	19.670	9.988	0.002	9.680
E0407	06/19/2013 12:30:08	2621.25	08215.37	12.7	30.1	46.172	45.190	0.042	0.940
E0408	06/19/2013 14:51:15	2620.47	08202.48	9.8	30.07	97.600	96.014	0.000	1.586
E0410	06/19/2013 16:54:54	2608.79	08206.73	15.7	30.15	39.722	33.848	0.000	5.874
E0413	06/19/2013 18:57:41	2600.86	08200.00	12.4	30.08	99.840	85.82401	0.010	14.006
E0302	06/19/2013 20:32:09	2556.69	08202.98	15.4	30.2	151.241	139.353	0.008	11.880
E0305	06/19/2013 23:14:54	2544.86	08211.57	21.8	30.08	387.768	11.140	0.036	376.592
E0317	06/20/2013 4:46:31	2505.60	08150.54	16.6	30.17	145.3068	96.32456	0.189237	48.79296
E0316	06/20/2013 6:36:41	2507.05	08201.90	19.4	31.93	608.6581	57.896	0.004	550.758
E0314	06/20/2013 9:24:59	2516.75	08219.38	27.6	30.02	62.742	57.318	0.594	4.830
E0326	06/20/2013 12:39:19	2522.17	08243.34	38.3	30.02	26.548	10.468	0.720	15.360
E0310	06/20/2013 16:15:03	2535.83	08223.46	28.8	29.95	440.772	65.482	0.000	375.290
E0307	06/20/2013 18:33:37	2537.28	08238.58	33.1	30.03	181.332	4.526	0.486	176.320
E0306	06/20/2013 20:02:58	2542.65	08236.87	33	30.3	304.158	10.546	0.042	293.570
E0411	06/21/2013 0:22:48	2607.38	08218.61	20.1	30.03	421.990	50.040	0.038	371.912
E0412	06/21/2013 3:03:28	2603.74	08233.17	27.6	30.1	54.447	34.135	0.7299999	19.582
E0409	06/21/2013 5:59:04	2620.27	08241.71	28.1	30.05	119.034	41.207	2.153	75.674
E0405	06/21/2013 8:47:11	2637.44	08252.78	31.9	30.13	51.078	41.597	6.220	3.261
E0418	06/21/2013 10:58:03	2646.38	08304.00	38	30.03	28.935	19.263	0.362	9.310
E0402	06/21/2013 13:27:47	2652.19	08249.02	27.6	30.02	20.246	20.058	0.104	0.084
E0401	06/21/2013 15:18:40	2655.42	08258.66	34	30.18	22.368	17.328	0.010	5.030
E0506	06/21/2013 19:46:43	2725.04	08318.68	34	30.17	8.580001	8.224001	0.122	0.234
E0505	06/21/2013 21:07:05	2728.37	08316.76	33.4	30.15	43.486	34.382	0.018	9.086
E0516	06/22/2013 0:10:55	2738.86	08331.92	39.1	30	20.402	17.969	1.161	1.272
E0502	06/22/2013 2:35:52	2749.13	08328.38	32.8	30.07	77.55799	56.520	2.744	18.294

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E0504	06/22/2013 6:07:42	2740.10	08305.59	20.1	30.13	120.526	79.66299	0.113	40.750
E0503	06/22/2013 7:57:16	2745.98	08306.09	18.9	30.15	62.96599	61.13499	0.373	1.458
E0501	06/22/2013 11:02:48	2758.67	08250.73	5.3	30.1	68.768	67.346	0.008	1.414
E0619	06/22/2013 13:05:54	2807.97	08300.15	10.2	28.95	34.608	28.300	0.044	6.264
E0616	06/22/2013 15:18:41	2818.24	08307.90	14.7	30.1	0.000	0.000	0.000	0.000
E0609	06/22/2013 18:29:49	2837.91	08318.07	17.6	30.15	0.000	0.000	0.000	0.000
E0614	06/22/2013 20:55:46	2820.85	08325.78	21.4	30.08	57.66699	33.546	0.174	23.947
E0615	06/22/2013 22:13:11	2819.48	08326.91	22.4	30.17	0.000	0.000	0.000	0.000
E0618	06/23/2013 0:48:16	2808.43	08342.42	33.5	30.03	102.201	74.251	2.714	25.236
E0605	06/23/2013 6:04:20	2850.00	08328.64	18.4	30.03	0.000	0.000	0.000	0.000
E0601	06/23/2013 8:16:08	2858.22	08341.97	20.9	30.03	20.112	6.792	1.388	11.932
E0603	06/23/2013 9:25:18	2857.14	08346.77	23.6	30.07	167.328	40.070	1.457	125.801
E0606	06/23/2013 11:27:59	2848.67	08353.75	28.8	30	164.502	36.212	0.020	128.270
E0608	06/23/2013 14:13:17	2840.09	08407.49	35.1	30	34.786	12.426	0.042	22.318
E0604	06/23/2013 16:43:28	2851.95	08418.07	33	30.05	56.032	11.120	0.004	44.908
E0717	06/23/2013 20:41:59	2920.12	08408.38	23.4	30.03	72.56999	2.900	0.010	69.660
E0715	06/23/2013 22:24:52	2921.59	08401.54	20.6	30.03	0.000	0.000	0.000	0.000
E0713	06/24/2013 1:02:13	2925.71	08344.04	13.1	30.05	181.991	53.896	0.021	128.074
E0710	06/24/2013 2:48:30	2932.73	08335.90	8.4	30.03	0.000	0.000	0.000	0.000
E0705	06/24/2013 4:59:46	2941.53	08349.90	11.6	30	0.000	0.000	0.000	0.000
E0703	06/24/2013 6:44:16	2949.96	08345.54	5.2	30.07	392.5504	106.3177	0.687713	285.545
E0702	06/24/2013 8:17:51	2950.15	08351.80	7	30.23	0.000	0.000	0.000	0.000
E0707	06/24/2013 13:52:06	2939.32	08446.13	7.8	30.08	3.528	3.038	0.008	0.482
E0709	06/24/2013 15:40:55	2932.41	08456.19	11.3	30.02	8.344	4.078	0.000	4.266
E0814	06/24/2013 21:10:56	2848.11	08505.17	70	30.05	28.168	12.410	0.604	15.154
E0813	06/25/2013 0:26:12	2858.07	08525.89	101.8	30.02	0.000	0.000	0.000	0.000
E0804	06/25/2013 5:16:16	2931.97	08533.90	21.6	30.05	20.561	13.682	0.804	6.075
E0803	06/25/2013 7:04:28	2939.12	08542.58	30.9	30.15	13.941	8.951	0.506	4.484
E0809	06/25/2013 8:56:17	2937.87	08554.84	40	30.03	17.588	8.159	0.917	8.512
E0810	06/25/2013 10:48:01	2929.90	08552.06	40.8	30.03	20.622	4.494	0.036	16.092



SEAMAP Station Number	START TIME (GMT)	START LAT (DDMM.MM)	START_LON (DDMM.MM)	DEPTH (m)	TOW TIME (Mins)	TOTAL CATCHT (kg)	FISH CATCH (kg)	CRUST. CATCH (kg)	OTHER CATCH (kg)
E0811	06/25/2013 12:13:07	2927.51	08553.76	44.1	30.02	3.992	2.984	0.078	0.930
E0812	06/25/2013 13:38:39	2923.05	08551.09	50.8	30.07	3.596	1.650	0.038	1.908
E0909	06/25/2013 17:34:39	2937.60	08611.64	67.5	30.2	4.422001	3.408	0.050	0.964
E0908	06/25/2013 19:14:29	2941.68	08615.65	67.5	30.17	1.518	1.308	0.008	0.202
E0907	06/25/2013 21:32:17	2949.08	08621.96	80.8	30.1	23.870	21.892	0.010	1.968
E0906	06/25/2013 22:59:45	2950.22	08621.56	77.5	30.1	15.905	12.801	0.050	3.054