

SEAMAP Summer 2012 Groundfish and Shrimp Survey Cruise Report
Cruise Dates: 06/05/12-06/08/12

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Introduction

SEAMAP Shrimp/Groundfish surveys are conducted to provide fishery-independent monitoring and assessment information and are part of a Gulf-wide coordinated and cost-efficient program. This data is essential to the management of the fisheries resources in Louisiana's Gulf of Mexico.

Objectives

1. Conduct a trawl survey to collect information on shrimp and groundfish abundance and distribution with standard SEAMAP 42ft trawls.
2. Sample in conjunction with the National Marine Fisheries Service (NMFS) SEAMAP Summer Groundfish Survey and select stations from their Summer randomized sampling grid. Select stations from the grid west of the Mississippi River for sampling. All species are identified, weighed and counted, and measured according to NMFS SEAMAP Operations Manual guidelines.
3. Collect a water column profile (salinity, temperature, dissolved oxygen, conductivity) at each SEAMAP station using a Conductivity/Temperature/Depth (CTD). Other environmental data were taken according to the NMFS SEAMAP Operations Manual guidelines.
4. Measure chlorophyll in the water column by collecting water with the CTD water sampler and filtering onboard for later spectroscopic analysis in the LDWF lab.
5. Code all data according to approved NMFS SEAMAP Operations Manual guidelines, and enter data on the LDWF SEAMAP data entry system.
6. Submit data to Jeff Rester, SEAMAP coordinator and Lloyd Kirk, Data Manager at the Gulf States Marine Fisheries Commission.

Methods

SEAMAP Groundfish trawl sampling consists of pulling a 42ft trawl with 1.58 inch stretched mesh at each selected site. The towline is set at a 5:1 (or 4:1) cable length/water depth ratio to target shrimp and groundfish species. Trawl tows are conducted at or near 3 knots for 30 minutes after the net is fully deployed. Trawl catch specimens are identified, counted, measured for length and weighed.

Plankton sampling is conducted at each station using 60cm, 0.335mm-mesh bongo and 1m x 2m, 0.950mm-mesh neuston nets. Samples are transported back to the LDWF Fisheries Research Laboratory for preparation and transfer. Sample workup and data processing is

conducted in accordance with the NMFS SEAMAP Operations Manual guidelines. Samples are then transferred to the NMFS Pascagoula, MS lab.

Environmental data is collected in conjunction with each plankton station. Temperature, dissolved oxygen, salinity and conductivity values are measured with a CTD. In the event a DO reading falls below 2.0 Mg/L, the DO is verified using a YSI.

Data is coded according to the NMFS SEAMAP Operations Manual guidelines and entered into the LDWF SEAMAP data entry system. The data is then submitted to Jeff Rester, SEAMAP coordinator and Lloyd Kirk, Data Manager at the Gulf States Marine Fisheries Commission.

Results

Louisiana conducted its SEAMAP Summer Groundfish Survey on 05-08 June 2012. Twenty-nine groundfish stations were sampled in Louisiana's territorial sea and the adjacent EEZ (between latitudes 28° 19.24 and 29° 12.70 and longitudes -89° 21.74 and -91° 40.95) (Table 1). The vessel used was the R/V Pelican. Louisiana also sampled seven plankton stations between latitudes 28° 30.00 and 29° 00.00 and longitudes -89° 30.00 and -91° 30.00. Twenty-five plankton sample jars were collected (see Plankton Sample Check-In Form). Plankton samples were transferred to the NMFS Pascagoula, MS lab on 24 September 2012. All chlorophyll samples were analyzed by spectroscopy in the LDWF Fisheries Research Laboratory.

Deviations

There were no significant deviations.

Cruise participants:

Louisiana Department of Wildlife and Fisheries, Research and Assessment Division personnel collected samples. Suzy Delaune, Mark Belter, Caitlin Hamer, Jennifer Atilano, Robert Boothe, Christine Seither, Clint Edds, Katie Gherard, Marianna Bradley, Michaela Mayers. Sample summary and data entry completed by Suzy Delaune.

Submitted By:

Suzy Delaune
SEAMAP Chief Scientist

Table 1. LDWF SEAMAP 2012 Summer groundfish cruise report summary.

STA #	DATE	TIME	LAT	LONG	STAT ZONE	MAX DEPTH (fm)	SALINITY			TEMPERATURE			DO			FIN CATCH	CRUS CATCH	OTHR CATCH	MIN FISH
	MM/DD/YYYY						SUR	MID	MAX	SUR	MID	MAX	SUR	MID	MAX				
35002	06/05/2012	1344	28	54.99	90	17.18	14	11	24.1	35.3	36.3	28.53	25.29	24.37	8.0	3.9	1.7		30
35004	06/05/2012	1739	29	03.97	90	03.78	14	10	31.8	34.4	36.0	28.23	26.31	24.54	7.7	5.9	1.2		30
35005	06/05/2012	2019	29	12.40	89	50.58	13	8	29.0	34.4	35.6	28.65	26.27	25.04	7.7	5.3	0.4		30
35006	06/05/2012	2147	29	13.07	89	44.42	13	7	24.2	32.3	35.4	29.73	27.41	25.20	9.5	6.7	0.8		30
35008	06/05/2012	0224	28	56.69	89	27.11	13	6	29.7	29.7	35.0	28.24	28.21	25.29	7.0	6.8	1.5		30
35009	06/05/2012	0421	28	56.45	89	20.83	13	7	33.1	36.2	36.3	26.19	24.32	23.38	6.8	5.5	3.5		30
35010	06/06/2012	0647	28	54.84	89	33.54	13	34	29.5	36.4	36.5	28.42	23.89	20.74	6.6	4.8	2.5		30
35011	06/06/2012	0959	28	50.93	89	51.76	13	27	26.7	36.4	36.5	28.62	25.84	21.46	7.4	7.1	4.4		30
35012	06/06/2012	1157	28	53.90	89	54.70	13	22	26.1	36.2	36.5	28.43	26.12	22.62	7.2	7.0	2.9		30
35013	06/06/2012	1418	28	44.53	90	59.99	14	26	26.8	36.2	36.5	28.97	26.38	22.50	7.5	6.9	5.9		30
35014	06/06/2012	1716	28	29.40	90	05.98	14	37	29.0	36.4	36.5	28.96	24.70	20.26	7.3	7.2	4.1		30
35015	06/06/2012	1850	28	31.02	90	09.06	14	32	27.6	36.2	36.5	29.73	25.71	21.69	6.9	7.1	4.7		30
35016	06/06/2012	2050	28	30.65	90	15.72	14	27	26.7	36.1	36.5	29.78	25.58	23.01	7.2	6.5	5.5		30
35017	06/06/2012	2320	28	42.16	90	23.38	14	12	25.7	35.0	36.4	29.16	26.87	24.56	6.9	6.7	6.0		30
35018	06/06/2012	0045	28	44.00	90	30.50	14	10	26.4	35.2	36.2	29.15	26.63	25.21	6.9	6.9	5.4		30
35019	06/06/2012	0219	28	38.33	90	25.86	14	13	27.1	34.4	36.4	29.37	27.09	23.98	6.9	6.7	3.4		30
35020	06/06/2012	0405	28	31.20	90	27.61	14	21	27.4	36.3	36.5	30.30	25.99	23.13	7.0	7.1	3.6		30
35022	06/07/2012	0820	28	19.25	90	50.77	14	30	30.6	36.4	36.5	29.04	24.87	21.81	6.7	7.1	5.2		30
35024	06/07/2012	1210	28	30.16	91	07.03	15	20	30.2	36.1	36.5	28.96	26.32	23.40	6.7	6.9	5.6		30
35025	06/07/2012	1422	28	21.07	91	11.70	15	33	30.3	36.3	36.5	28.99	24.95	21.74	6.7	6.9	4.3		30
35026	06/07/2012	1718	28	24.99	91	32.44	15	31	35.6	36.3	36.5	28.81	24.83	22.53	6.7	7.3	6.6		30
35027	06/07/2012	1954	28	36.81	91	38.53	15	21	32.1	36.2	36.4	28.68	26.73	24.08	6.8	7.0	5.6		30
35028	06/07/2012	2117	28	37.64	91	41.58	15	20	30.9	36.2	36.5	29.02	26.66	24.02	6.8	7.0	6.0		30
35029	06/07/2012	2310	28	42.67	91	34.96	15	16	29.5	34.7	36.3	28.79	26.56	25.07	6.8	6.4	6.7		30
35031	06/07/2012	0418	28	51.00	91	18.69	15	7	28.8	31.1	35.4	28.81	28.12	25.78	6.9	6.9	4.7		30
35032	06/08/2012	0602	28	46.69	91	12.32	15	7	29.4	32.7	35.5	28.86	27.79	26.23	6.9	6.8	6.7		30
35033	06/08/2012	0822	28	45.28	90	58.99	14	9	30.1	35.6	36.1	28.67	25.60	24.98	6.7	5.4	3.7		30
35034	06/08/2012	1018	28	47.69	90	49.89	14	10	29.3	36.2	36.2	28.84	24.78	24.67	6.7	6.1	4.9		30
35035	06/08/2012	1159	28	56.10	90	46.81	14	6	28.6	34.8	35.4	28.64	26.11	25.29	6.8	5.1	1.9		30

Data transfer summary: number of observations in each table (will be filled in when data entry is complete).

Station Card Environmental Biological Index General Length Freq.

Submitted by: Suzy Delaune

Date submitted: 12 June 2012

SEAMAP Plankton Sample Check-In

Cruise 122

Month/Year June 2012

List stations in ascending order by Pascagoula Station No. (refer to Plankton Station data sheets or Cruise Summary page), then fill in corresponding LDWF Stn. No.

Pascagoula Stn. No.	LDWF Stn. No.	Target Lat.	Target Long.	Net	Coll. Date	No. Jars, Remarks		SEAMAP Plankton Sample No.
						Plastic	Glass	
35001	P103	29 00.00	90 30.00	Bongo-Lt.	6/5	2	1	43785
				Bongo-Rt.	6/5	1	1	43786
				Neuston	6/5	1	1	43787
35003	P104	29 00.00	90 00.00	Bongo-Lt.	6/5	1	1	43788
				Bongo-Rt.	6/5	1	1	43789
				Neuston	6/5	1	1	43790
35007	P105	29 00.00	89 30.00	Bongo-Lt.	6/5	1	1	43791
				Bongo-Rt.	6/5	1	1	43792
				Neuston	6/5	1	2	43793
35021	P107	28 30.00	90 30.00	Bongo-Lt.	6/7	1	1	43794
				Bongo-Rt.	6/7	1	1	43795
				Neuston	6/7	2	4	43796
35023	P106	28 30.00	91 00.00	Bongo-Lt.	6/7	1	1	43797
				Bongo-Rt.	6/7	1	1	43798
				Neuston	6/7	1	1	43799
35030	P101	29 00.00	91 30.00	Bongo-Lt.	6/7	1	1	43800
				Bongo-Rt.	6/7	1	1	43801
				Neuston	6/7	1	1	43802
35036	P102	29 00.00	91 00.00	Bongo-Lt.	6/8	1	1	43803
				Bongo-Rt.	6/8	1	1	43804
				Neuston	6/8	1	1	43805