

# SEAMAP Spring 2010 Groundfish and Shrimp Survey Cruise Report

Prepared by  
Schuyler Dartez  
Louisiana Department of Wildlife and Fisheries  
195 Ludwig Annex  
Grand Isle, LA 70358

## Introduction

SEAMAP groundfish and shrimp cruises are conducted to provide fishery-independent monitoring and assessment information essential to management of Louisiana Gulf of Mexico fisheries resources in a coordinated and cost-efficient program. Fishery-independent information is that collected without direct reliance on statistics reported by commercial or recreational fishermen.

## Objectives

1. Conduct a trawl survey to collect information on shrimp and groundfish abundance and distribution with standard SEAMAP 42ft trawls.
2. Select stations west of the Mississippi River for random sampling. All species are identified, weighed and counted, and measured according to NMFS SEAMAP Operations Manual.
3. Collect information on environmental parameters (salinity, temperature, dissolved oxygen, wind speed and direction, wave height, precipitation) in conjunction with trawl sampling.
4. Code all data according to approved NMFS SEAMAP Operations Manual guidelines, and enter data on the NMFS SEAMAP data entry system.
5. Submit data to the Gulf States Marine Fisheries Commission/NMFS Data Manager.

## Methods

The vessel that participated in the Louisiana Groundfish Survey was the R/V Pelican on 16-19 April 2010. A 42ft trawl with 1.58 inch stretched mesh was lowered into position at the selected sites and towline was set at a 5:1 (or 4:1) cable length water depth ratio to sample shrimp and groundfish species. Trawl towing was conducted at or near 3 knots for 30 minutes after lockdown. Trawl catch specimens were identified, counted, measured for length and weighed.

Plankton sampling was conducted at fixed-coordinate stations, using 60cm, 0.335mm-mesh bongo and 1m x 2m, 0.950mm-mesh neuston nets. Samples were transported back to the laboratory for measurements of total plankton biomass, measured as displaced volume. Sample workup and data processing was conducted in accordance with the NMFS SEAMAP Operations Manual guidelines. Data was entered and checked with the NMFS SEAMAP Data Entry Database.

Environmental data were collected in conjunction with each trawl and plankton sample. Temperature, dissolved oxygen, salinity and conductivity values were measured with a CTD.

### **Results**

Louisiana collected 33 groundfish stations in Louisiana's territorial sea and the adjacent EEZ (between latitudes 28° 28' and 29° 13' and longitudes -89° 30' and -91° 31') (Table 1). Totals of biological and length frequency will be available when data entry is complete.

### **Deviations**

There were no significant deviations.

### **Cruise participants:**

Louisiana Department of Wildlife and Fisheries, Research and Assessment Division personnel collected samples. Sample summary and data entry completed by Marsha Strong.

Submitted By:

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*Schuyler Dartez*  
SEAMAP Chief Scientist

**Table 1. LDWF SEAMAP 2010 Spring 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				
35004	04/16/2010	1808	28	59.10	91	30.51	15	8	26.3	26.5	27.2	21.51	21.32	20.84	7.5	7.4	6.6	30	
35005	04/16/2010	1954	28	50.74	91	26.45	15	10	28.5	29.2	31.0	20.86	20.49	19.95	7.2	7.0	6.7	30	
35006	04/16/2010	2111	28	50.19	91	25.52	15	10	29.1	29.4	31.0	20.69	20.42	19.96	7.1	6.9	6.6	30	
35007	04/16/2010	2249	28	43.98	91	25.05	15	13	31.2	31.2	31.4	20.17	20.16	19.89	7.3	7.3	6.3	30	
35008	04/17/2010	0023	28	41.04	91	22.34	15	14	31.6	31.6	31.7	20.06	20.00	19.82	7.1	7.0	6.3	30	
35009	04/17/2010	0224	28	38.82	91	11.90	15	12	29.8	31.7	32.3	20.41	19.92	20.05	7.6	6.0	7.0	30	
35010	04/17/2010	0356	28	41.95	91	09.40	15	9	28.9	28.9	30.3	20.61	20.60	20.18	7.8	7.8	7.2	30	
35011	04/17/2010	0537	28	33.84	91	07.38	15	17	31.3	34.8	35.8	20.16	19.99	18.62	7.2	6.9	2.2	30	
35012	04/17/2010	0715	28	14.91	91	02.99	15	21	35.5	35.6	36.1	20.35	20.40	18.83	7.1	7.2	3.5	30	
35014	04/17/2010	1049	28	28.70	90	58.11	14	21	33.4	35.6	36.0	19.97	20.37	18.71	7.2	7.0	3.0	30	
35015	04/17/2010	1232	28	28.18	90	49.99	14	21	33.6	35.6	36.1	20.09	18.84	18.60	7.3	3.2	3.2	30	
35016	04/17/2010	1358	28	29.79	90	44.00	14	19	31.6	35.8	36.1	20.44	20.40	18.28	7.5	7.2	2.7	30	
35017	04/17/2010	1541	28	31.96	90	40.80	14	18	29.3	35.0	35.7	20.85	20.17	18.70	8.1	7.3	3.2	30	
35019	04/17/2010	1951	28	38.48	90	20.95	14	17	31.3	32.8	35.2	21.07	20.39	18.57	8.5	7.3	1.0	30	
35020	04/17/2010	2131	28	38.92	90	27.89	14	12	31.6	33.2	34.6	20.74	20.22	19.37	7.9	7.4	5.1	30	
35021	04/17/2010	2358	28	48.76	90	43.11	14	11	27.2	30.2	30.8	21.47	20.54	20.24	9.0	6.9	5.6	30	
35022	04/18/2010	0128	28	50.61	90	35.22	14	11	30.5	32.0	33.7	21.09	20.31	18.92	8.6	6.6	0.3	30	
35023	04/18/2010	0302	28	54.66	90	27.72	14	10	30.6	32.2	33.4	21.04	20.24	19.34	8.5	6.9	3.4	30	
35024	04/18/2010	0411	28	57.74	90	27.14	14	8	28.7	30.6	31.5	20.77	20.44	20.27	8.0	7.0	6.1	30	
35025	04/18/2010	0647	28	54.44	90	10.98	14	14	25.2	31.2	34.4	21.17	20.31	20.15	8.3	7.1	6.8	30	
35026	04/18/2010	0833	28	59.03	90	02.45	14	14	23.0	29.5	35.8	20.67	20.25	18.72	7.6	7.2	2.1	30	
35028	04/18/2010	1045	29	04.73	89	55.04	13	14	22.5	26.4	35.1	21.04	20.62	18.73	8.5	7.2	3.3	30	
35029	04/18/2010	1158	29	04.36	89	49.09	13	16	20.7	31.5	34.7	21.17	20.09	19.37	10.0	6.7	5.4	30	
35030	04/18/2010	1340	29	02.00	89	39.17	13	19	18.6	33.4	34.8	22.69	20.45	20.33	12.6	7.1	6.9	30	
35032	04/18/2010	1600	29	00.71	89	30.73	13	10	18.9	31.6	32.6	21.54	19.35	19.32	10.0	5.5	4.7	30	
35033	04/18/2010	1702	28	59.74	89	34.67	13	17	3.2	33.7	35.2	23.07	20.48	19.74	11.9	7.1	5.8	30	
35034	04/18/2010	1808	29	02.58	89	37.85	13	16	18.0	33.1	34.3	22.82	20.63	20.29	11.7	7.2	6.7	30	
35035	04/18/2010	1920	29	03.27	89	42.49	13	19	20.9	33.9	34.9	22.25	20.64	20.24	12.0	7.2	6.6	30	
35036	04/18/2010	2037	29	07.36	89	45.98	13	13	22.1	29.0	34.3	21.40	20.18	19.48	9.5	6.3	5.5	30	
35037	04/18/2010	2203	29	12.68	89	39.37	13	6	19.0	22.3	32.3	22.32	21.12	18.88	10.6	7.3	1.9	30	
35038	04/19/2010	0001	29	12.98	89	52.51	13	6	15.8	20.1	33.4	23.29	22.19	19.06	11.4	8.0	1.6	30	
35039	04/19/2010	0724	28	37.17	90	53.30	14	11	29.2	31.5	35.2	20.75	20.14	19.68	7.7	5.9	4.4	30	
35040	04/19/2010	0938	28	49.69	90	55.44	14	8	24.6	27.4	30.3	21.31	21.09	20.24	9.4	6.9	4.7	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: Schuyler Darte

Date submitted: 14 July 2010

**SEAMAP Plankton Sample Check-In**

**Cruise**   102  

**Month/Year**   April 2010  

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.	4/16	1		39678
				Bongo-Rt.	4/16	1		39679
				Neuston	4/16	1		39680
35002	P102	29 00.00	91 00.00	Bongo-Lt.	4/16	1		39681
				Bongo-Rt.	4/16	1		39682
				Neuston	4/16	1		39683
35003	P101	29 00.00	91 30.00	Bongo-Lt.	4/16	1		39684
				Bongo-Rt.	4/16	1		39685
				Neuston	4/16	1		39686
35013	P106	28 30.00	91 00.00	Bongo-Lt.	4/17	1		39687
				Bongo-Rt.	4/17	1		39688
				Neuston	4/17	1		39689
35018	P107	28 30.00	90 30.00	Bongo-Lt.	4/17	2		39690
				Bongo-Rt.	4/17	2		39691
				Neuston	4/17	2		39692
35027	P104	29 00.00	90 00.00	Bongo-Lt.	4/18	4		39693
				Bongo-Rt.	4/18	3		39694
				Neuston	4/18	2		39695
35031	P105	29 00.00	89 30.00	Bongo-Lt.	4/18	1		39696
				Bongo-Rt.	4/18	1		39697
				Neuston	4/18	1		39698