

SEAMAP Summer 2010 Groundfish and Shrimp Survey Cruise Report

Prepared by
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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 8-11 June 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 23 groundfish stations in Louisiana's territorial sea and the adjacent EEZ (between latitudes 28° 32' and 29° 10' and longitudes -89° 29' and -92° 27') (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:

Schuyler Dartez
SEAMAP Chief Scientist

Table 1. LDWF SEAMAP 2010 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				
35004	06/08/2010	1849	28	42.16	90	16.08	14	17	28.4	35.2	36.2	29.33	26.40	20.62	6.1	5.9	3.4	30	
35005	06/08/2010	2002	28	43.18	90	12.10	14	19	27.5	35.8	36.4	30.57	25.41	19.45	6.2	6.1	4.1	30	
35006	06/08/2010	2146	28	53.21	90	10.45	14	14	22.4	33.9	36.1	29.74	24.87	21.06	6.7	1.3	2.0	30	
35007	06/08/2010	2306	28	53.04	90	04.97	14	17	25.1	35.1	36.3	29.05	24.71	20.11	6.6	4.1	1.9	30	
35008	06/09/2010	0138	29	00.90	89	48.44	13	20	10.4	35.1	36.4	29.76	23.80	19.38	9.1	6.0	1.5	30	
35009	06/09/2010	0340	29	09.19	89	38.04	13	8	10.3	33.1	35.9	30.08	25.20	21.08	9.0	0.1	0.1	30	
35010	06/09/2010	0547	28	59.39	89	29.08	13	13	13.5	30.5	35.8	29.35	27.58	21.15	6.4	4.0	1.4	30	
35012	06/09/2010	0843	28	52.87	90	28.46	13	7	8.0	33.1	36.1	28.26	26.25	21.20	7.6	2.0	4.5	30	
35014	06/09/2010	1506	29	00.54	90	17.44	14	7	22.7	29.5	35.4	30.24	27.70	23.06	7.0	3.2	0.2	30	
35015	06/09/2010	1640	29	00.11	90	26.41	14	6	20.3	26.5	35.1	32.53	27.16	23.66	7.9	0.1	0.1	30	
35016	06/09/2010	2108	28	40.74	90	59.35	15	9	26.4	30.5	35.5	30.32	28.09	22.71	6.5	5.7	0.5	30	
35017	06/09/2010	2354	28	32.75	91	13.73	15	19	33.0	35.1	36.2	29.35	26.65	20.18	5.9	6.2	2.1	30	
35018	06/10/2010	0129	28	40.10	91	07.96	15	10	27.4	29.4	35.8	29.56	29.52	22.99	6.4	6.2	0.9	30	
35019	06/10/2010	0357	28	49.93	91	22.10	15	9	30.0	30.1	35.0	28.74	28.81	24.74	6.2	6.1	0.9	30	
35020	06/10/2010	0517	28	55.50	91	21.84	15	6	28.4	31.1	34.4	28.74	27.68	25.36	5.6	4.8	0.2	30	
35023	06/10/2010	1229	28	57.46	91	31.63	15	8	23.5	33.8	35.2	29.88	25.15	24.38	6.0	0.4	1.9	30	
35024	06/10/2010	1511	29	01.93	91	52.19	15	9	27.7	28.2	35.2	29.70	29.00	23.50	6.5	5.7	0.5	30	
35025	06/10/2010	1653	29	07.52	92	00.67	16	7	26.4	26.6	32.2	30.25	29.98	26.11	7.0	6.7	0.8	30	
35026	06/10/2010	1915	28	59.96	92	15.14	16	13	29.9	32.5	35.4	29.43	28.71	21.03	6.4	5.9	0.2	30	
35027	06/10/2010	2108	29	04.44	92	26.63	16	12	26.2	31.4	35.0	29.40	28.73	22.07	6.4	5.6	1.1	30	
35028	06/10/2010	2310	29	06.10	92	13.64	16	9	26.0	28.5	34.8	29.35	28.23	22.46	6.1	2.6	0.2	30	
35029	06/11/2010	0051	29	03.94	92	04.19	16	9	25.8	28.5	35.1	29.60	29.14	23.13	5.9	5.2	0.1	30	
35030	06/11/2010	0244	29	06.83	91	51.86	15	6	27.8	27.8	28.4	29.42	29.41	29.13	6.1	6.2	4.3	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 Dartez**Date submitted:** 14 July 2010

SEAMAP Plankton Sample Check-In

Cruise 103

Month/Year June 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.	6/8	1		39699
				Bongo-Rt.	6/8	1		39700
				Neuston	6/8	1		39701
35002	P106	28 30.00	91 00.00	Bongo-Lt.	6/10	1		39702
				Bongo-Rt.	6/10	1		39703
				Neuston	6/10	1		39704
35003	P107	28 30.00	91 30.00	Bongo-Lt.	6/10	1		39705
				Bongo-Rt.	6/10	1		39706
				Neuston	6/10	1		39707
35011	P105	29 00.00	89 30.00	Bongo-Lt.	6/8	1		39708
				Bongo-Rt.	6/8	1		39709
				Neuston	6/8	1		39710
35013	P104	29 00.00	90 00.00	Bongo-Lt.	6/8	1		39711
				Bongo-Rt.	6/8	1		39712
				Neuston	6/8	1		39713
35021	P102	29 00.00	91 00.00	Bongo-Lt.	6/9	1		39714
				Bongo-Rt.	6/9	1		39715
				Neuston	6/9	1		39716
35022	P101	29 00.00	90 30.00	Bongo-Lt.	6/9	1		39717
				Bongo-Rt.	6/9	1		39718
				Neuston	6/9	1		39719