SEAMAP Fall 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 22-25 September 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 22 groundfish stations in Louisiana's territorial sea and the adjacent EEZ (between latitudes 28°28'and 29°12' and longitudes -89°39'and -91°46') (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 Fall 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	09/22//2010	1441	28	57.56	91	29.71	15	10	28.4	28.6	28.9	28.86	28.64	28.53	6.94	6.41	6.08				30
35005	09/22/2010	1641	28	57.22	91	40.97	15	12	29.2	30.2	30.7	28.92	28.82	28.83	6.95	6.23	5.99				30
35006	09/22/2010	1925	28	54.00	91	27.67	15	11	28.9	29.0	29.3	28.77	28.77	28.68	6.31	6.26	5.78				30
35007	09/22/2010	2204	28	43.91	91	42.65	15	18	32.8	33.2	33.8	28.98	29.02	28.99	5.94	5.62	5.54				30
35008	09/22/2010	2336	28	38.48	91	45.52	15	21	33.7	34.4	35.6	29.01	29.14	26.01	6.21	6.12	2.39				30
35009	09/23/2010	0221	28	43.22	91	28.11	15	16	32.7	32.8	33.1	28.98	28.99	29.02	5.99	5.98	6.06				30
35010	09/23/2010	0346	28	42.75	91	23.17	15	14	33.2	33.2	33.3	29.06	29.10	29.22	5.89	5.90	5.98				30
35011	09/23/2010	0647	28	37.56	91	04.72	15	14	31.2	31.8	33.3	28.78	28.91	29.00	5.72	5.25	3.87				30
35012	09/23/2010	0840	28	33.03	90	57.29	14	17	33.8	33.9	33.9	28.85	28.84	28.85	5.97	5.97	5.93				30
35014	09/23/2010	1238	28	28.82	90	43.14	14	22	33.4	35.6	35.7	28.97	29.31	29.16	6.27	5.93	5.76				30
35016	09/23/2010	1616	28	38.54	90	32.97	14	13	34.2	34.2	34.2	29.35	29.24	28.98	6.21	6.19	5.77				30
35017	09/23/2010	1752	28	46.42	90	38.87	14	13	31.9	32.4	33.6	29.42	29.24	29.10	6.29	5.85	5.84				30
35018	09/23/2010	1941	28	51.17	90	49.56	14	11	33.0	33.0	33.1	29.35	29.34	29.37	6.16	6.15	6.05				30
35019	09/23/2010	2215	28	50.47	90	32.94	14	13	30.3	30.4	32.3	29.32	29.28	29.14	5.94	5.83	5.69				30
35020	09/23/2010	2343	28	53.83	90	33.60	14	12	29.5	29.6	30.9	29.23	29.20	29.12	6.18	6.15	5.83				30
35021	09/24/2010	0147	28	47.77	90	25.52	14	13	27.9	33.7	34.2	28.86	29.25	29.04	6.54	6.24	6.08				30
35022	09/24/2010	0416	28	44.48	90	11.28	14	20	29.4	33.8	35.7	28.97	28.97	26.66	6.91	5.61	3.12				30
35023	09/24/2010	0606	28	52.56	90	04.56	14	19	30.5	35.3	35.8	28.87	28.42	26.33	6.74	4.71	3.75				30
35024	09/24/2010	0759	29	01.93	90	05.38	14	12	23.7	27.9	33.3	28.80	29.11	29.28	6.44	5.65	5.51				30
35027	09/24/2010	1445	29	07.68	89	39.00	13	11	27.8	29.6	30.9	29.24	29.00	29.09	6.99	6.26	3.89				30
35028	09/24/2010	1622	29	07.89	89	39.43	13	11	28.1	29.9	31.2	29.27	29.04	29.08	7.24	6.13	5.10				30
35029	09/24/2010	1820	29	11.50	89	50.43	13	10	31.7	31.8	31.8	29.14	29.13	29.11	6.26	6.24	5.95				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:

SEAMAP Plankton Sample Check-In

Cruise 104 **Month/Year September 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.	9/22	1	1	40542
				Bongo-Rt.	9/22	1	1	40543
				Neuston	9/22	1	1	40544
35002	P102	29 00.00	91 00.00	Bongo-Lt.	9/22	1	1	40545
				Bongo-Rt.	9/22	3	1	40546
				Neuston	9/22	1	1	40547
35003	P101	29 00.00	91 30.00	Bongo-Lt.	9/22	1	1	40548
				Bongo-Rt.	9/22	1	1	40549
				Neuston	9/22	2	1	40550
35013	P106	28 30.00	91 00.00	Bongo-Lt.	9/23	1	1	40551
				Bongo-Rt.	9/23	1	1	40552
				Neuston	9/23	1	1	40553
35015	P107	28 30.00	90 30.00	Bongo-Lt.	9/23	1	1	40554
				Bongo-Rt.	9/23	1	1	40555
				Neuston	9/23	1	1	40556
35025	P104	29 00.00	90 00.00	Bongo-Lt.	9/24	1	1	40557
				Bongo-Rt.	9/24	1	1	40558
				Neuston	9/24	1	1	40559
35026	P105	29 00.00	89 30.00	Bongo-Lt.	9/24	1	1	40560
				Bongo-Rt.	9/24	1	1	40561
				Neuston	9/24	1	1	40562