

SEAMAP Fall 2011 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 03-06 Oct. 2011. A 42ft trawl with 1-5/8" 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 24 groundfish stations in Louisiana's territorial sea and the adjacent EEZ (between latitudes 28° 27' and 29° 04' and longitudes -89° 23' and -92° 13') (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:

Suzy Delaune
SEAMAP Chief Scientist

Table 1. LDWF SEAMAP 2011 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				
35002	10/03/2011	1126	29	00.28	90	08.35	14	10	29.4	29.6	34.5	26.05	26.03	27.79	7.5	7.3	1.9	30	
35005	10/03/2011	1932	28	53.26	89	23.84	13	16	27.7	35.1	35.8	25.83	28.10	28.18	7.4	6.5	5.7	30	
35006	10/03/2011	2358	28	58.88	89	52.13	13	20	29.0	34.1	36.2	25.99	28.07	27.82	7.0	6.5	4.4	30	
35007	10/04/2011	0133	29	01.51	89	58.96	13	13	29.3	34.0	35.6	26.02	27.98	27.66	7.5	6.6	2.9	30	
35008	10/04/2011	0322	28	54.93	90	07.37	14	14	32.6	35.9	36.1	26.52	27.50	27.29	7.2	3.6	3.9	30	
35009	10/04/2001	0518	28	48.34	90	16.91	14	11	31.7	34.3	35.1	26.58	27.43	27.68	6.9	6.8	6.1	30	
35010	10/04/2011	0651	28	42.92	90	15.08	14	17	33.0	35.1	36.1	26.72	27.79	27.33	6.9	6.6	3.5	30	
35011	10/04/2011	0822	28	46.26	90	15.32	14	15	31.5	34.5	35.3	26.52	27.54	27.72	6.6	6.5	5.5	30	
35013	10/04/2011	1248	28	27.54	90	40.88	14	21	35.1	35.8	36.5	27.56	28.27	27.45	6.5	6.6	5.0	30	
35015	10/04/2011	1714	28	36.82	90	52.68	14	11	30.8	31.2	32.3	26.48	26.61	27.37	7.2	6.9	3.4	30	
35016	10/04/2011	1940	28	38.18	90	45.36	14	10	30.7	31.3	32.6	26.47	26.52	27.13	7.2	7.2	4.3	30	
35017	10/04/2011	2134	28	39.29	90	52.32	14	10	30.8	31.0	31.5	26.42	26.52	26.78	6.6	6.3	5.2	30	
35018	10/04/2011	2304	28	44.54	90	52.83	14	10	30.5	30.5	30.8	26.43	26.42	27.10	6.6	6.6	4.7	30	
35019	10/05/2011	0403	28	44.38	91	39.38	15	15	32.6	34.6	36.2	26.97	28.27	27.75	6.8	6.4	4.1	30	
35020	10/05/2011	0555	28	36.78	91	38.97	15	21	36.5	36.5	36.5	27.93	27.93	27.92	6.7	6.7	6.7	30	
35021	10/05/2011	0749	28	43.36	91	49.23	15	16	34.2	35.4	36.3	26.96	27.50	27.64	6.9	6.7	5.0	30	
35022	10/05/2011	0957	28	50.54	91	42.86	15	13	31.0	31.1	34.1	26.85	26.97	27.83	6.5	6.4	4.1	30	
35024	10/05/2011	1437	28	50.77	91	46.11	15	13	30.9	31.6	34.9	27.02	27.09	28.01	6.9	6.7	3.3	30	
35025	10/05/2011	1656	28	45.96	92	03.07	16	18	35.3	35.7	36.2	27.37	27.42	27.16	6.8	6.7	3.1	30	
35026	10/05/2011	1840	28	50.24	92	13.93	16	17	35.3	36.1	36.4	27.10	27.62	27.92	6.1	6.5	6.4	30	
35027	10/05/2011	2003	28	54.87	92	12.86	16	15	34.4	34.9	36.2	27.12	27.22	27.62	6.5	6.6	4.6	30	
35028	10/05/2011	2059	28	56.88	92	14.11	16	14	33.3	34.3	35.5	27.06	27.34	27.29	6.6	6.2	2.8	30	
35029	10/05/2011	2313	29	03.18	92	04.75	16	10	31.0	31.0	31.0	26.83	26.84	26.84	6.5	6.5	6.5	30	
35030	10/06/2011	0734	29	04.53	91	48.49	15	6	30.0	30.0	30.0	25.96	25.94	25.94	7.1	7.1	7.1	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:** 17 Oct. 2011

SEAMAP Plankton Sample Check-In

Cruise 112

Month/Year Oct. 2011

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.	10/03	1		
				Bongo-Rt.	10/03	1		
				Neuston	10/03	1		
35014	P106	28 30.00	91 00.00	Bongo-Lt.	10/04	1		
				Bongo-Rt.	10/04	1		
				Neuston	10/04	1		
35012	P107	28 30.00	90 30.00	Bongo-Lt.	10/04	1		
				Bongo-Rt.	10/04	1		
				Neuston	10/04	1		
35004	P105	29 00.00	89 30.00	Bongo-Lt.	10/03	1		
				Bongo-Rt.	10/03	1		
				Neuston	10/03	1		
35003	P104	29 00.00	90 00.00	Bongo-Lt.	10/03	1		
				Bongo-Rt.	10/03	1		
				Neuston	10/03	1		
35031	P102	29 00.00	91 00.00	Bongo-Lt.	10/06	1		
				Bongo-Rt.	10/06	1		
				Neuston	10/06	1		
35023	P101	29 00.00	91 30.00	Bongo-Lt.	10/05	1		
				Bongo-Rt.	10/05	1		
				Neuston	10/05	1		