

SEAMAP Summer 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 20-23 June 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° 24' and 29° 06' and longitudes -89° 30' and -91° 54') (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 2011 Summer groundfish cruise report summary.

STA #	DATE		TIME	LAT	LONG	STAT ZONE	MAX DEPTH (m)	SALINITY			TEMPERATURE			DO		FIN CATCH	CRUS CATCH	OTHR CATCH	MIN FISH
	MM/DD/YYYY							SUR	MID	MAX	SUR	MID	MAX	SUR	MID				
35002	06/20/2011		1014	28	55.17	90	02.39	14	18	19.7	35.7	36.2	29.68	25.91	23.35	5.8	5.5	1.5	30
35004	06/20/2011		1423	29	05.11	89	55.06	13	14	21.8	35.0	35.8	30.13	27.25	23.18	6.5	4.8	0.1	30
35006	06/20/2011		1937	29	05.36	89	35.01	13	10	20.3	23.3	35.8	30.00	29.64	24.16	6.5	4.9	0.1	30
35007	06/20/2011		2210	29	05.44	89	50.70	13	15	23.1	33.6	36.0	30.02	28.80	23.20	6.0	3.3	0.0	30
35008	06/21/2011		0018	28	59.65	89	52.81	13	19	21.0	35.7	36.3	30.02	25.72	22.84	6.2	5.0	0.3	30
35009	06/21/2011		0323	28	54.25	90	06.45	14	16	21.7	34.9	36.0	29.73	27.60	23.46	6.3	5.0	1.7	30
35010	06/21/2011		0729	28	34.65	90	11.78	14	22	33.3	35.9	36.3	29.09	24.27	19.51	5.9	5.6	4.0	30
35011	06/21/2011		0940	28	28.11	90	12.60	14	22	33.6	36.0	36.2	29.07	23.67	20.60	6.0	5.7	3.1	30
35012	06/21/2011		1141	28	29.89	90	18.16	14	22	34.5	35.9	36.1	28.97	23.94	20.75	6.0	6.5	0.9	30
35013	06/21/2011		1357	28	25.19	90	26.18	14	27	35.2	35.5	36.1	28.54	26.91	21.05	6.0	6.0	1.1	30
35015	06/21/2011		1657	28	33.96	90	27.72	14	18	33.6	36.0	36.2	29.20	24.30	22.50	6.1	6.0	2.5	30
35017	06/22/2011		0957	28	56.57	91	27.37	15	7	29.8	29.8	30.8	29.07	29.06	28.94	6.0	6.0	5.3	30
35019	06/22/2011		1353	28	58.58	91	45.09	15	11	27.4	28.1	35.6	29.59	29.33	24.73	6.2	6.0	0.1	30
35020	06/22/2011		1612	28	56.21	91	53.39	15	13	28.6	28.6	35.4	29.43	29.25	25.25	6.1	6.0	0.4	30
35021	06/22/2011		1823	28	48.24	91	48.49	15	16	31.4	32.5	35.5	29.02	28.97	25.39	6.1	5.9	2.6	30
35022	06/22/2011		2016	28	45.28	91	39.08	15	16	31.1	33.5	35.7	29.19	28.45	24.53	6.1	5.2	2.6	30
35023	06/22/2011		2331	28	43.87	91	24.70	15	13	29.8	32.0	35.7	29.11	28.47	24.44	6.0	5.2	2.1	30
35024	06/23/2011		0155	28	42.74	91	12.88	15	10	33.8	34.0	35.5	28.78	28.92	24.79	4.1	5.8	1.0	30
35025	06/23/2011		0347	28	34.26	91	07.68	15	17	32.3	35.6	35.9	28.77	26.83	23.44	5.9	6.2	2.9	30
35026	06/23/2011		0553	28	36.52	90	58.48	14	13	29.7	34.7	35.8	29.15	27.31	24.36	6.1	5.2	1.6	30
35028	06/23/2011		0932	28	44.09	91	01.54	15	9	29.7	30.0	35.2	29.04	29.09	25.18	6.1	5.9	0.1	30
35029	06/23/2011		1112	28	47.65	90	52.61	14	11	29.7	29.7	35.6	29.09	29.05	23.06	6.1	6.0	0.1	30
35030	06/23/2011		1351	28	49.81	90	34.76	14	12	28.7	31.6	35.9	29.74	27.26	24.26	4.2	5.6	1.2	30
35031	06/23/2011		1645	28	54.10	90	21.90	14	12	27.2	28.9	35.7	29.86	29.42	23.48	6.3	5.5	0.1	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: Schuyler Darte

Date submitted: 28 June 2011

SEAMAP Plankton Sample Check-In

Cruise 111

Month/Year June 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.	6/20	1		
				Bongo-Rt.	6/20	1		
				Neuston	6/20	1		
35027	P106	28 30.00	91 00.00	Bongo-Lt.	6/23	1		
				Bongo-Rt.	6/23	1		
				Neuston	6/23	1		
35014	P107	28 30.00	91 30.00	Bongo-Lt.	6/21	1		
				Bongo-Rt.	6/21	1		
				Neuston	6/21	1		
35005	P105	29 00.00	89 30.00	Bongo-Lt.	6/20	1		
				Bongo-Rt.	6/20	1		
				Neuston	6/20	1		
35003	P104	29 00.00	90 00.00	Bongo-Lt.	6/20	1		
				Bongo-Rt.	6/20	1		
				Neuston	6/20	1		
35016	P102	29 00.00	91 00.00	Bongo-Lt.	6/22	1		
				Bongo-Rt.	6/22	1		
				Neuston	6/22	1		
35018	P101	29 00.00	90 30.00	Bongo-Lt.	6/22	1		
				Bongo-Rt.	6/22	1		
				Neuston	6/22	1		