

SEAMAP Summer 2008 Shrimp & Groundfish Survey Cruise Report

Prepared by
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Introduction

SEAMAP Summer Shrimp and Groundfish cruises are conducted to provide fishery-independent monitoring assessment and shrimp abundance and location information essential to management of Alabama and nearshore FMZ 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 fall trawl survey to collect information on shrimp and groundfish abundance and distribution with standard SEAMAP 40-ft trawls.
2. Select stations from NMFS generated charts of SEAMAP station location east 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 Alabama Fall Shrimp & Groundfish Survey was the A.E. Verrill. Eleven trawls samples were collected in gulf statistical zone 11 on June 2, 2008 and June 20, 2008. A 40 ft trawl with 1.58 inch stretched mesh was lowered into position at the selected site and towline was set at a 5:1 cable length water depth ratio. Trawl towing was conducted at or near 3 knots for a minimum 10 minutes after lockdown, and towed across a fathom strata. Direction of tows were south to north or north to south. 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. Temperature and dissolved oxygen, salinity, and turbidity values were measured with a CDT.

Results

Alabama collected 11 Summer Shrimp and Groundfish stations in Alabama's territorial sea and the adjacent FEZ (between latitudes 29° 58' and longitudes 88 21') (Table 1). A total of 240 biological and 1873 length frequency records were recorded (Table 1)

Deviations

Gear was fouled on station 23007 therefore no data was recorded

Cruise participants:

Alabama Marine Resources Division personnel collected samples. Sample summary and data entry completed by Ashley Edwards.

Submitted By:

Mark Van Hoose
SEAMAP Field Party Chief

Table 1. AMRD SEAMAP 2008 Summer Shrimp & groundfish cruise report summary.

STA#	DATE		LAT	LONG	STAT ZONE	MAX DEPTH	D.O			SALINITY			TEMPERATUR			FIN CATCH	CRUS CATCH	OTHR CATCH	MIN FISHED	BIO COUNT	LENGTH COUNT	OP
	MM/DD/YY	TIME					SUR	MID	MAX	SUR	MID	MAX	SUR	MID	MAX							
23 A.E. Verrill																						
23001	6/02/2008	856	30 09.10	88 02.67	11	11	6.4	7.9	3.3	24.8	31.8	36.0	29.0	25.9	22.5	1.976	0.082	0.054	10			
23002	6/02/2008	942	30.09.59	88 04.26	11	13	6.7	7.6	3.0	23.6	31.3	35.8	29.3	26.9	22.4	0.547	0.035	0.036	10			
23003	6/02/2008	1040	30 06.08	88 07.54	11	22	6.5	6.2	3.3	25.5	35.7	36.0	29.2	23.3	22.3	0.079	0.026	0.000	10			
23004	6/02/2008	1158	29 59.84	88 12.42	11	29	7.0	5.0	3.6	27.1	36.3	36.0	29.1	22.6	21.3	18.736	0.055	0.068	22			
23005	6/02/2008	1332	29 56.73	88 21.12	11	31	6.6	5.2	1.7	25.9	36.0	36.3	29.7	21.3	21.4	198.122	0.570	0.367	56			
23006	6/02/2008	1655	30 08.15	88 18.68	11	18	6.2	5.3	2.9	25.5	35.7	35.7	29.7	22.8	22.6	3.555	0.390	0.628	21			
23008	6/02/2008	1824	30 10.93	88 18.39	11	15	6.6	4.6	2.7	29.3	35.1	36.0	27.3	22.3	22.2	0.738	0.361	0.077	11			
23009	6/02/2008	2005	30 08.23	88 16.67	11	18	6.6	5.3	3.1	26.1	34.7	36.2	29.3	23.1	22.6	6.704	0.895	2.027	24			
23010	6/02/2008	2142	30 13.03	88 17.97	11	8	6.0	6.3	1.8	26.6	32.5	35.2	27.9	24.2	21.7	0.262	0.018	0.186	10			
2311	6/02/08	2223	30 13.57	88 15.41	11	11	6.5	6.1	0.5	26.2	35.1	35.4	29.3	22.1	21.5	0.046	0.133	0.039	19			
2312	6/16/2008	1020	30 05.73	88 11.53	11	20	6.5	4.5	3.1	23.6	35.1	35.8	30.2	24.2	22.7	20.003	0.405	0.389	44			

Data transfer summary: number of observations in each table.

Station Card	Environmental	Biological Index	General Length Freq.
80	132	191	1246

Submitted by: Mark Van Hoose
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