

SEAMAP Summer 2007 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, 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 summer 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 locations east of the Mississippi River for random sampling. All species are identified, weighed and counted, and selected species are sexed 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 Summer Shrimp & Groundfish Survey was the A.E.Verrill. Nine trawls samples were collected in Gulf statistical zone 11 on June 4, 11, and 27, 2007. 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 nine summer shrimp and groundfish stations in Alabama's territorial sea and the adjacent EEZ (between latitudes 10' and 29° 52' and longitudes 88° 04' and 25') (Table 1).

Deviations

There were no significant deviations.

Cruise participants:

Alabama Marine Resources Division personnel collected samples. Sample summary and data entry completed by Dianne McKinnon.

Submitted By:

Mark Van Hoose
SEAMAP Field Party Chief

Table 1. AMRD SEAMAP 2007 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 |
|-----------------|-----------|------|----------|----------|--------------|--------------|-----|-----|-----|----------|------|------|------------|------|------|-----------|---------------|---------------|---------------|
| | MM/DD/YY | TIME | | | | | SUR | MID | MAX | SUR | MID | MAX | SUR | MID | MAX | | | | |
| 23 A.E. Verrill | | | | | | | | | | | | | | | | | | | |
| 23001 | 6/04/2007 | 1042 | 30 00.56 | 88 11.40 | 11 | 26 | 6.1 | 6.1 | 5.9 | 34.6 | 35.7 | 36.1 | 25.8 | 24.8 | 24.6 | 7.324 | 0.087 | 0.079 | 19 |
| 23002 | 6/04/2007 | 1309 | 29 52.05 | 88 22.39 | 11 | 34 | 6.1 | 6.2 | 5.9 | 35.5 | 36.2 | 36.3 | 25.7 | 24.7 | 24.2 | 125.036 | 1.062 | 0.010 | 54 |
| 23003 | 6/04/2007 | 1523 | 30 00.97 | 88 19.25 | 11 | 26 | 6.1 | 6.1 | 6.1 | 33.5 | 36.2 | 36.1 | 25.9 | 24.8 | 24.8 | 3.709 | 0.004 | 0.000 | 14 |
| 23004 | 6/11/2007 | 2030 | 30 04.38 | 88 09.00 | 11 | 21 | 7.6 | 6.0 | 5.5 | 28.6 | 35.8 | 36.2 | 29.5 | 25.1 | 23.7 | 1.697 | 4.115 | 0.324 | 52 |
| 23005 | 6/11/2007 | 2224 | 30 10.51 | 88 10.81 | 11 | 10 | 6.6 | 6.6 | 5.3 | 30.2 | 35.3 | 35.7 | 29.1 | 25.8 | 25.3 | 0.472 | 1.303 | 0.069 | 10 |
| 23006 | 6/27/2007 | 1744 | 30 04.14 | 88 25.97 | 11 | 19 | 5.9 | 5.9 | 4.6 | 31.2 | 32.1 | 36.2 | 29.1 | 28.2 | 25.3 | 1.726 | 0.000 | 0.104 | 15 |
| 23007 | 6/27/2007 | 1821 | 30 04.92 | 88 25.43 | 11 | 17 | 6.0 | 5.9 | 4.2 | 31.2 | 31.5 | 36.2 | 28.9 | 28.7 | 25.2 | 8.196 | 2.069 | 0.476 | 36 |
| 23008 | 6/27/2007 | 2031 | 30 07.48 | 88 23.11 | 11 | 15 | 6.1 | 6.1 | 4.1 | 30.4 | 30.6 | 36.1 | 29.3 | 28.8 | 25.4 | 3.024 | 2.180 | 0.962 | 10 |
| 23009 | 6/27/2007 | 2211 | 30 12.08 | 88 15.38 | 11 | 13 | 5.8 | 5.8 | 4.4 | 30.8 | 30.9 | 36.0 | 28.9 | 29.7 | 25.6 | 3.401 | 4.956 | 1.395 | 17 |

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