

SEAMAP Summer 2007 Shrimp & Groundfish Survey Cruise Report Cruise 0702

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 Mississippi 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 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. Submit data to the Gulf States Marine Fisheries commission/NMFS Data Manager.

Methods

All trawl samples were collected aboard the R/V TOMMY MUNRO. 31 trawls samples were collected from 6/12 – 7/7/07. 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 of 10 to 30 minutes after lockdown and towed across the appropriate strata. Sample workup and data procession 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, dissolved oxygen, and salinity values were measured.

Results

Mississippi collected 31 trawl samples and one plankton sample during 2007 Shrimp/Groundfish cruise.

Deviations

No Significant deviation from protocol was noted except equipment failure forced us to take temperature measurements with a laboratory grade glass thermometer on the last two stations.

Cruise Participants

Submitted By:

Richard Waller
SEAMAP Field Party Chief

Cruise 0702 Leg 1 6/12 – 15/2007 and 6/27/2007
Leg 2 7/05 – 10/ 2007

31 Trawl Stations 1 Plankton Station

Date	Pasc. #	SEAMAP #	Lat.	Long.
06/27/07	17022	B178	2959.99	8830.03

Cruise 0702

Leg 1 6/12 – 15/2007 and 6/27/2007

Leg 2 7/05 – 10/ 2007

31 Trawl Stations

Date	Pasc. #	SEAMAP #	Lat.	Long.
6-12-07	17001	ED18	2916.37	8853.37
6-12-07	17002	ED11	2919.16	8855.03
6-12-07	17003	ED16	2921.53	8849.08
6-12-07	17004	EN17	2920.99	8849.06
6-12-07	17005	EN13	2921.72	8850.31
6-13-07	17006	EN18	2922.71	8844.26
6-13-07	17007	ED12	2928.10	8844.69
6-13-07	17008	ED15	2926.91	8841.57
6-13-07	17009	EN07	2922.26	8853.55
6-13-07	17010	EN10	2921.87	8851.66
6-14-07	17011	EN05	2930.79	8845.09
6-14-07	17012	ED03	2947.23	8846.09
6-14-07	17013	ED08	2947.32	8837.07
6-14-07	17014	ED06	2953.24	8841.06
6-14-07	17015	ED07	2956.61	8838.82
6-14-07	17016	EN14	2928.67	8839.64
6-14-07	17017	EN13	2930.84	8837.89
6-14-07	17018	EN08	2933.66	8838.03
6-15-07	17019	EN01	2938.33	8834.00
6-27-07	17020	ED01	2959.35	8847.56
6-27-07	17021	ED01	2957.33	8846.54
7-06-07	17025	WN54	2858.12	9051.99
7-06-07	17026	WN53	2900.99	9056.36
7-07-07	17027	WN52	2920.79	9152.28
7-07-07	17028	WD48	2933.65	9235.18
7-07-07	17029	WD50	2928.74	9227.06
7-07-07	17030	WD54	2908.38	9152.77
7-07-07	17031	WN48	2924.82	9203.25
7-07-07	17032	WN49	2911.15	9212.04
7-08-07	17033	WN50	2910.94	9219.28
7-08-07	17034	WD53	2917.37	8948.33
7-08-07	17035	WD52	2916.41	8940.17

17022 17024 were test #'s, not used