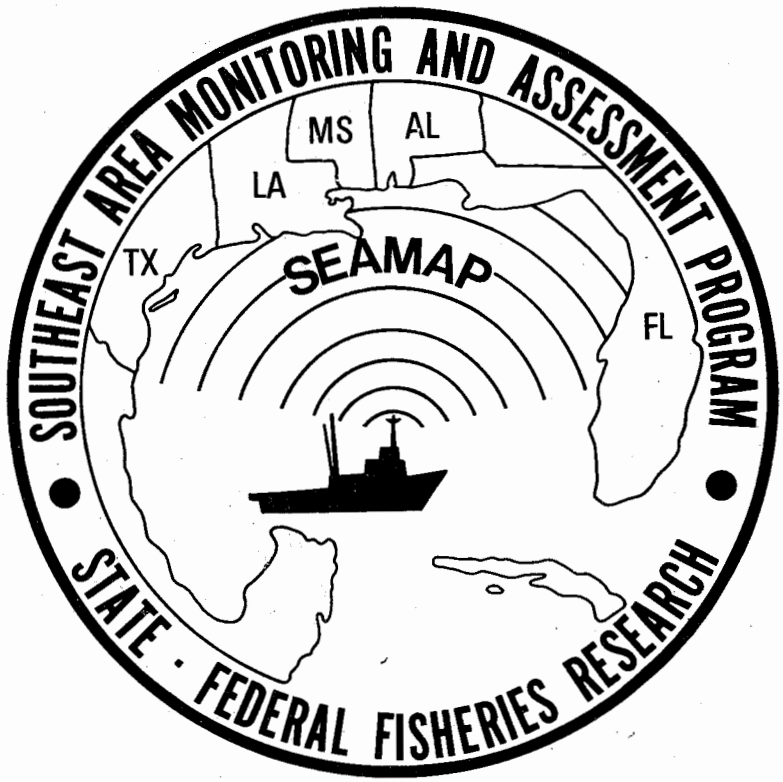
1983
SEAMAP MARINE DIRECTORY



GULF STATES MARINE FISHERIES COMMISSION

Compiled by

Mr. Fred R. Diaz

MAY 1983

INTRODUCTION

The Southeast Area Monitoring and Assessment Program (SEAMAP) is a cooperative state/Federal/university program for collection, management, and dissemination of fishery-independent data (data collected without direct reliance on any commercial or recreational fishery) and information in the southeast region.

In the past, individual states, Federal agencies, and universities involved with marine research and management have collected scientific data independent of each other. One of the SEAMAP objectives is to prevent redundant and wasteful data collection by informing participating agencies of the ongoing research programs in the Gulf of Mexico.

In December, 1981, a SEAMAP Subcommittee was established for the Gulf of Mexico under the Technical Coordinating Committee (TCC) of the Gulf States Marine Fisheries Commission (GSMFC). The Subcommittee was formed with representation from each Gulf state and the National Marine Fisheries Service (NMFS) to design and coordinate the program. Program management is through the Executive Director's Office of the Gulf States Marine Fisheries Commission.

In March 1982, the Subcommittee recommended to the TCC that a SEAMAP Marine Directory on the description of survey activities (ongoing programs, vessel schedules, etc.) be published in the 1983 Gulf States Marine Fisheries Commission Annual Report.

In November 1982, the Subcommittee approved a questionnaire (Appendix A) which was used to contact marine agencies associated with the Gulf of Mexico. The information received from these marine agencies was used to coordinate and develop a marine directory.

A large number of marine agencies were contacted from January 1 to February 28, 1983 and requested to answer the SEAMAP Marine Directory Questionnaire (Appendix B). Tables 1, 2, and 3 are condensed summaries of information provided by the participating agencies and tabulated according to Federal agencies, state agencies, and universities, respectively.

The SEAMAP Subcommittee would like to express its appreciation to the marine agencies who cooperated and participated in the completion of the SEAMAP Marine Directory Questionnaire. This Directory will be updated each year and copies will be supplied to participating agencies.

Questions and requests for detailed information concerning the SEAMAP Marine Directory should be referred to:

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APPENDIX A

MARINE DIRECTORY QUESTIONNAIRE

I. Organization's Rational for Fishery-Independent Sampling

A. Did your organization undertake fishery-independent survey activities in 1982?

B. Are fishery-independent surveys a routine part of your organization's activities?

C. What is the purpose of the sampling?

1. Biological assessment

2. Environmental assessment

D. Is the collected data used for: (Please Describe)

1. Management activities, such as setting fishing dates, opening and closing specific areas, etc.

2. Providing stock abundance information to commercial and/or recreational fishery.

3. Biological studies independent of specific management activities.

4. Ecosystem studies.

5. Environmental studies.

II. Data Collection Procedure

A. What biological parameters are measured and in what units? what environmental parameters are normally measured and in what units? (please list and briefly describe method of environmental data collection and list instrumentation.)

B. What sampling strategy is followed for data collection (what is your sampling rationale and protocol)?

1. Systematic

2. Random

3. Grid Basis

4. Long-term station selection

5. Short-term special studies

C. What are your target species?

1. What life stages are sampled?

2. What geographical areas are of importance?

D. What are your secondary species?

1. What life stages are sampled?

2. What geographical areas are of importance?

E. What types of fishery-independent sampling does your organization undertake?

1. Estuarine or Internal sampling?

2. Coastal or Territorial sampling?

3. Open-ocean or FCZ sampling?

III. Gear and Platforms Employed

A. What types of platforms are used? (Refer to technical information questionnaire).

B. What types of gear are used in your sampling program (including gear dimensions, mesh size, etc.? (Refer to technical information questionnaire).

C. What is the approximate annual effort devoted to fishery-independent sampling by target species and/or gear type and/or activity in days or number of samples?

D. Please provide a cruise schedule for your vessels for Calendar Year 1983.

E. Briefly describe cruise planning requirements and protocol (i.e., lead time, budget cycle, etc.). Briefly describe organizational planning sequence and identify a specific individual who is responsible for cruise panning and coordination.

IV. Data Management

A. How is data recorded? Managed?

B. What is your organization's data processing capabilities?

1. Do you have a programmer or program analyst?

2. Do you have or have access to large scale or medium scale computer systems? If yes, who is the vendor and model number?

3. Do you have a microprocessor (i.e., Apple, TRS-80)? If yes, who is the vendor and model number?

4. What computer media (i.e., mag tape, data cards) is used for transferring data?

5. Do you have a data base that is constantly updated?

C. Is your organization tied into the TIMS network?

V. Future Activities

A. Does your organization anticipate significant changes in the direction and/or intensity of fishery-independent activities over the next five years (please describe)?

B. Are there high priority areas and/or species that you are presently unable to sample (please describe)?

Technical Information Necessary to Platform and Sampling Gear

1. Organization _____
2. Aircraft size and type _____
3. Unmanned platforms and capabilities _____
4. Vessel size and type _____
5. Vessel name _____
6. Vessel horsepower _____
7. Size of vessel crew _____
8. Size of scientific crew _____
9. Trawling Speed _____
10. Trawl type _____
11. Headrope length _____
12. Legline length _____
13. Footrope length _____
14. Setback (number of meshes) _____
15. Trawl body mesh and twine size _____
16. Trawl bag mesh and twine size _____
17. Size of combination cable _____
18. Number, type and size of flotation _____
19. Float placement _____
20. Type, amount and placement of chain on footrope _____
21. Type and number of mud rollers _____
22. Type, length and size of tickler chain _____
23. Type and size of doors _____
24. Door chain size _____
25. Door chain setting _____
26. Size (diameter) and length of bridge _____
27. Size (diameter) of main cable _____
28. Scope ratio for various depths sampled _____
29. Special rigging (list)_____
    - Mesh _____
    - Method of operation _____
    - Mouth opening _____
    - Other comments _____
30. Plankton Nets (Size, type, mesh size, ton type, tow speed, tow duration (i.e. Bongo nets) (throughout water column) (i.e. Neuston nets) (surface only).____
31. Sediment sampling_____

APPENDIX B

MARINE AGENCY CONTACTS

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Table 1. Summary of Information Provided by Federal Agencies

	TYPES OF FISHERY INDEPENDENT SAMPLING				ANNUAL EFFORT DEVOTED TO FISHERY IND. SAMPLING BY ACTIVITY IN:			TYPES OF GEAR				
Agencies	Target Species	Life Stages Sampled	Area Sampled	Geographic Areas of Importance	Types of Platforms	No. of Days	No. of Samples	Fishing, Trawling	Plankton	Sample Strategy for Data Collection	Anticipated Changes in Direction of Fishery Ind. Activities Over Next 5 Years	High Priority and/or Species That are Presently Unable To Sample
NOAA, NMFS/SEFC Miss. Labs. Pascagoula, MS	All penaeid shrimp, croaker, spot, trout, catfish	Subadult-adult	U.S. Gulf of Mexico	Territorial, open ocean (FCZ)	170' R/V NOAA Ship OREGON II	135/yr toward target species. 243/yr total sea days	1644/yr trawl stations, 180 ichthyo/yr 80 neustons/yr	Standard 40' semiballon trawl	Bongo array w/ .333" mesh nets 15 cm neuston net .947 mm mesh	Random (stratified)	None	Coastal & midwater pelagics Cannot adequately sample reef fish
NOAA, NMFS/SEFC Miami Lab. Miami, FL NOAA, NMFS/SEFC Panama City, FL*	All recreationally & commercially important species	Larval stages	U.S. Gulf of Mexico	Internal, territorial (FCZ)	170' R/V OREGON II & various small boats	35/yr	1500/yr	No fishing or trawling gear	Bongo nets 60 & 20 cm w/.333 µm mesh neuston nets 1 x 2 m 0.547 µm mesh	Systematic, grid basis, long-term station selection	Continuation of SEAMAP, continuation of S.E. FL National Park monitoring	None
NOAA, NMFS/SEFC Galveston, TX	All penaeid shrimp, ocellated flounder, rock sea bass, dwarf sand perch, red snapper, lane snapper, southern kingfish, blackfin sea robin, bighead sea robin, inshore lizard fish	Post larval-adult	U.S. Gulf of Mexico	Internal, (FCZ)	170' R/V OREGON II (Texas Closure). Charter vessels, CAPT.EDDIE & MISS VIRGINIA, for Tortugas Sanctuary	117 days total Texas Closure & Tortugas Sanctuary		(Texas Closure) Same as OREGON II (CAPT. EDDIE & MISS VIRGINIA) 4-4 40' flat net	Same as OREGON II No plankton nets	Random (stratified) for Texas Closure & Tortugas Sanctuary. Short-term special studies for estuarine ecology	None	None
U.S. Dept. of Interior Fish & Wildlife, LSU Baton Rouge, LA	All economically estuarine-dependent fishes & crustaceans	Larval-juvenile	S.W. Louisiana	Estuarine	(1) mudboat 275 hp (1) airboat 250 hp (1) outboard 35 hp	365/yr	Varies w/ project	16' flat otter trawl	0.5 m 0000 plankton 6' beam trawl 0000 mesh	Systematic, long-term station selection, short-term special studies	In 2 years work will be decreased considerably	None
U.S. Army COE Mobile, AL U.S. Dept. Interior Mineral Mgmt. Service, Metairie, LA (2 programs)	All commercial & recreational benthic species	All stages	Mobile Bay, MS Sound, U.S. Gulf of Mexico to the 20 fm contour	Internal, territorial	Charter research vessel	Varies w/ project	Varies w/ project	--	--	Systematic, random, short-term special studies	None	None
(1) Endangered Species Program FY79-82	Marine turtles, mammals, and manatees	Adult, juvenile (hatchlings for turtles)	U.S. Gulf of Mexico	Coastal & open ocean	Airplane, twin engine Beachcraft AT-11	25/yr	Aerial sightings	--	--	Over flight transects (grid basis)	Synthesis of data complete. Report due 1983.	All species dive, accurate counts difficult
(2) S.W. FL Regional Biological Communities Survey FY82	Finfish, invertebrates, infauna, epifauna & flora	All stages	U.S. Gulf of Mexico	Coastal & open ocean	Contract research vessels	50/yr (in 1982)	1000 trawling & dredging stations/yr	40' semiballon trawl	--	Systematic (seasonal) (stations chosen on basis of depth)	End of program in 1985	None
U.S. Dept. Interior Fish & Wildlife Corpus Christi, TX**												

*No fishery independent survey activities done in 1982 and none planned in 1983. All work is fishery dependent.

**No fishery independent survey activities done in 1982, none planned for 1983.

Table 2. Summary of Information Provided by State Agencies

			TYPES OF FISHERY INDEPENDENT SAMPLING			ANNUAL EFFORT DEVOTED TO FISHERY IND. SAMPLING BY ACTIVITY IN:		TYPES OF GEAR				
Agencies	Target Species	Life Stages Sampled	Area Sampled	Geographic Areas of Importance	Types of Platforms	No. of Days	No. of Samples	Fishing, Trawling	Plankton	Sample Strategy for Data Collection	Anticipated Changes in Direction of Fishery Ind. Activities Over Next 5 Years	High Priority and/or Species That are Presently Unable To Sample
Texas Parks & Wildlife	All penaeid shrimp, all other species	Juvenile-adult	TX internal coastal waters	Internal, territorial	72' R/V WESTERN GULF 30' inboard, 18' outboard skiffs	365/yr	840/yr → 60' bag seines (shoreline) 1440/yr → 20' trawl (bay, open water) 480/yr → 20' trawl (bay to Gulf Pass) 280/yr → 40' trawl (Gulf waters) 666/yr → Gill nets for adult finfish (along shoreline)	--	Random	None	More sampling in state territorial sea (Gulf waters)
Louisiana Dept. Wildlife & Fisheries	All penaeid shrimp and groundfish	Post-larval-adult	LA territorial sea	Internal, territorial	13-17' Boston whalers for 6' trawl 30' inboards for 16' trawl 85' vessel (LOOP) for 50' trawl	137/yr 92/yr LOOP	Plankton 819/yr; 2829/yr trawling; 708/yr LOOP	6' otter trawl 16' otter trawl 50' otter trawl	1/2-m 505-µm mesh plankton net	Long-term station selection	Reorganization of territorial sea sampling Anticipate inshore sampling approx. the same	Most of the important commercial and recreational finfish
Mississippi GCRL	All penaeid shrimp, blue crab, croaker, spot, seatrout, catfish, Gulf menhaden, At. bumper, sea mullet, butterfish, cutlass fish	Larval-adult	MS territorial sea	Internal, territorial (FCZ)	96' R/V TOMMY MUNRO (5) 24' skiffs (1) 30' R/V GANNET (1) 35' R/V HERMES	Semimonthly at 2-wk intervals	216 trawl stations/yr	50' bag seine 36' otter trawl 16' otter trawl 6' renfro beam trawl	Clark bumpers samplers w/3 nets microneuston sampling net	Long-term station selection	Fishery Div. anticipates its program of monitoring & assessment over the long term with appropriate increases in intensity & scope if funds become available	The adult phases of most species (both finfish & shrimp) occur offshore where coherent long-term sampling is difficult due to current funding restrictions. These same restrictions preclude adequate inshore sampling of the adults of some species such as the striped mullet
Alabama Dept. of Conservation & Nat. Resources	All penaeid shrimp, bay anchovy, Gulf menhaden, croaker, spot, seatrout, red drum	Larval-adult	AL marshes to territorial sea	Internal, territorial	(1) 18' Seacraft 115 hp (1) 23' Seacraft 115 hp	108/yr	960/yr	50' bag seine 16' otter trawl	6' beam plankton trawl	Long-term station selection	None	Increase level of sampling in Alabama territorial sea. This is prevented due to lack of an appropriate vessel
FL Dept. of Natural Resources	Red drum spotted trout snook, king mackerel, mullets, gag grouper, tarpon, fish larvae, stone crab, blue crab, spiny lobster, oysters, hard clam	All stages, larval-adult	FL waters & offshore	Internal, territorial	72' R/V HERNAN CORTEZ 37' R/V BONNIE "E" Small outboard used for inshore sampling	Monthly intervals (annually) Weekly intervals (annually)	Varies with project	100' bag seine Benthic sled w/net Trammel net 600' x 8' lobster & crab traps	--	Systematic, random (stratified), grid basis Long-term station selection, short-term special studies	None unless specifically legislated	Mainly applies to implementation of research phases on current species or topics w/ additional personnel and increased funding

Table 3. Summary of Information Provided by Universities

			TYPES OF FISHERY INDEPENDENT SAMPLING			ANNUAL EFFORT DEVOTED TO FISHERY IND. SAMPLING BY ACTIVITY IN:		TYPES OF GEAR				
Universities	Target Species	Life Stages Sampled	Area Sampled	Geographic Areas of Importance	Types of Platforms	No. of Days	No. of Samples	Fishing, Trawling	Plankton	Sample Strategy for Data Collection	Anticipated Changes in Direction of Fishery Ind. Activities Over Next 5 Years	High Priority and/or Species That are Presently Unable To Sample
FLORIDA SCHOOLS												
Florida State Tallahassee	Benthic infauna Epibenthic fishes & invertebrates	Larval-adult	N.E. Gulf of Mexico	Internal, territorial	(3) 55 hp 25' skiffs, outboard	48/yr	Monthly samples; both trawl & environ.	Standard 5-m otter trawl	80 µm plankton net	Systematic, random long-term station sel., short-term special studies	More environmental experimentation	Areas: Apalachicola Bay system & Apalachee Bay; species: all species in those areas
Univ. West FL Pensacola	Snappers groupers triggerfish	Subadult-adult	N.E. Gulf of Mexico	Internal	(1) 28' R/V ARGONAUT	7/yr trawling, 14/yr plankton neuston	50/yr 140/yr	16' otter trawl	2 (1-m) nets 3 (1-m) neustons	Systematic, random (stratified)	None	None
Univ. Florida Gainesville***												
Univ. South FL Tampa***												
Florida Sea Grant Gainsville	Oysters, spiny lobster, swordfish, tile fish, snowy grouper, shark	All stages	FL waters	Estuarine, coastal	F.I.O. contract vessels	Varies w/ project	Varies w/ project	--	--	Varies w/project	None	None
FL Institute of Oceanography St.Petersburg	All species	All stages	Eastern Gulf Caribbean	Internal, territorial (FCZ)	R/V SUNCOASTER R/V BELLOWS	20-30/project	Varies	40' otter trawl, Tucker Trawl	Various plantkton nets	Random, long-term station sel., short-term special studies	To continue w/SEAMAP	None
ALABAMA SCHOOLS												
Univ. So. AL Mobile	All finfish	Egg & larvae	Mobile Bay	Internal, territorial	40' R/V DEBORAN "B"	15/yr	200/yr	---	Meter net 505 mm mesh demersal & neuston	Systematic, grid basis, long-term station selection	None	None
AL Marine Environ. Sciences Consortium Dauphin Island	All species are treated equal	All stages	AL-MS estaurine shelf	Internal, territorial	41' R/V DEBORAH "B"	Varies w/ each project	Varies w/ each project	20-25' otter trawls	0.25 m 500-µm plankton nets, Wisconsin style plankton net	Systematic, random short-term special studies	Decrease due to funding limitation	Inshore work in adjacent offshore waters Offshore sport fisheries Improve sampling on all reefs All species & more work in bay & delta waters
MISSISSIPPI SCHOOLS												
Univ. So. MS Hattiesburg**	American eels, freshwater prawns, seatrout, croaker, spot	All stages	MS estuarine Northern Gulf	Estuarine, territorial	Various small skiffs (outboard)	Varies	Varies	Standard basic equipment	Standard basic equipment	Short-term special studies	Increase development of a marine science program	None

*Fishery independent survey activities are not a routine function for UT.

**No fishery survey work was done in 1982 due to lack of funds. Some is planned in 1983.

***No fishery independent research was done in 1982; none planned for 1983.

Table 3. Summary of Information Provided by Universities (Continued)

			TYPES OF FISHERY INDEPENDENT SAMPLING			ANNUAL EFFORT DEVOTED TO FISHERY IND. SAMPLING BY ACTIVITY IN:		TYPES OF GEAR				
Universities	Target Species	Life Stages Sampled	Area Sampled	Geographic Areas of Importance	Types of Platforms	No. of Days	No. of Samples	Fishing, Trawling	Plankton	Sample Strategy for Data Collection	Anticipated Changes in Direction of Fishery Ind. Activities Over Next 5 Years	High Priority and/or Species That are Presently Unable To Sample
LOUISIANA SCHOOLS												
Univ. New Orleans New Orleans	Blue crab, Oysters, Marine commercial finfish	All stages	Lake Pontchartrain	Internal	--	(Varies)	--	--	--	Short-term special studies	To analyze commerical fish pops. by use of protein electrophoresis & multivariant analysis of morphometric characters	None
Univ. S.W. LA Lafayette***												
McNeese St. University Lake Charles	All penaeid sp., Gulf menhaden, red drum	All stages	Nearshore Gulf off Cameron/ Holly Beach, LA., Calcasieu Lake, Calcasieu Pass	Estuarine, coastal	65' R/V CAPT. BRADY JOSEPH	12-24/yr for 4 disciplines, 75/yr total	Benthic-nekton Phyto-plankton Zoo-plankton	15-m ballon otter trawl, 5-m flat otter trawl	3-liter Van Dorn bottle, 67 cc bongo array, 0.333 mm & 0.505 mm mesh nitex nets, Ring net 1.0 m w/ .353 mesh	Grid basis Long-term station selection Short-term special studies	Scale down of sampling activities from monthly to quarterly. Direction will remain essentially unchanged.	None
Nicholls St. University Thibodaux	Oysters	All stages	Terrebonne Bay Barataria Bay	Estuarine	21' skiff 30' oyster dredge boat	48/yr	144/yr	Oyster dredge	--	Random, long-term station selection	Three more yrs. w/oyster project before it ends	None
Louisiana State University Baton Rouge (4 projects)*												
(1) [R/RRE-3]▲	Shrimp Oysters Crab	All stages	LA waters	Estuarine	NA	NA	NA	--	--	NA	None	None
(2) [R/MPE-12]▲▲	Benthic intvertebrates	All stages	LA waters	Coastal, estuarine	(3) Boston whalers (1) 19' Monark (1) 16' John Boat	100/yr	300/yr	--	80' siene (1/4" mesh, 4' depth), Trammel net	Stratified random, Long-term station selection Short-term station studies	None	None
(3) [R/MPE-16]▲▲▲	Gulf menhaden Groundfish	All stages	LA Cont. Shelf	Internal territorial (FCZ)	(1) 44' coastal vessel (1) R/V 80' LONGHORN (U.T. Austin) (2) Boston whalers R/V OREGON II	20-40/yr	Varies	--	--	Long-term station selection Short-term special studies	None	None
(4) Impact of brine disposal operations on menhaden fisheries near Lake Charles, LA. Offshore TX-LA border	Gulf menhaden	Egg & Larvae	Cont. Shelf & coastal waters of west. LA	Internal territorial (FCZ)	80' R/V LONGHORN (U.T. Austin)	20/yr	Varies	--	60-cm bongo type plankton sampler w/500 & 335µm mesh	Transect grid system	None	None
TEXAS SCHOOLS												
Univ. of TX Austin* Marine Science Laboratory Port Aransas	All larval fishes Ecosystem/ benthic	Larvae stages	TX internal & territorial waters	Internal, territorial (FCZ)	80' R/V LONGHORN 57' R/V KATY	100/yr	Varies w/ project	42' semiballon shrimp trawl, 40' otter semiballon trawl	12' x 24" plankton net	Short-term special studies	Institute expansion on all present programs	None
Texas A & I Kingsville	All inshore bay species	All stages	Corpus Christi to Brownsville, TX	Internal, coastal	--	24/yr	150/yr	--	--	Short-term special studies	None	None
Pan American University Edinburg***												
Texas A & M College Station	All penaeid shrimp, all finfish	All stages	Bryan Mound, Freeport, TX	Internal territorial (FCZ)	Shrimp vessel	40/yr	Monthly samples	40' shrimp trawl	--	Long-term station selection, short-term special studies, systematic, grid basis	Reduced effort	Groundfish species

*Fishery independent survey activities are not a routine function for UT.

**No fishery survey work was done in 1982 due to lack of funds. Some is planned in 1983.

***No fishery independent research was done in 1982; none planned for 1983.

▲ Economics of fisheries utilization for use in management extension programs.

▲▲ Benthos & Nekton dynamics with habitat characterization.

▲▲▲ The coastal nearshore zone of the Atchafalaya Delta: A biological filter.