1990
SEAMAP
GULF OF MEXICO

GULF STATES MARINE
FISHERIES COMMISSION

THIS DIRECTORY WAS SUPPORTED IN PART BY THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, NATIONAL MARINE FISHERIES SERVICE; STATE/FEDERAL PROJECT NUMBER NA90AA-H-SM211.

INTRODUCTION

The Southeast Area Monitoring and Assessment Program (SEAMAP) is a cooperative State/Federal/university program for the 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. Presently operational are the SEAMAP-Gulf, SEAMAP-South Atlantic and SEAMAP-Caribbean (Puerto Rico and the U.S. Virgin Islands).

This Marine Directory, incorporated into the Fortieth Annual Report of the Gulf States Marine Fisheries Commission, updates information contained in the 1983, 1984, 1985, 1986, 1987, 1988 and 1989 SEAMAP Marine Directories, and describes survey activities (ongoing programs, vessel schedules, etc.) throughout the Gulf of Mexico. The SEAMAP Program is managed through the office of the Gulf States Marine Fisheries Commission.

Agencies responding to the 1990 Directory were contacted in April 1990 and requested to provide current information or projected changes in their survey programs. Tables 1, 2 and 3 are condensed summaries of information submitted by responding agencies and organizations, indicated as either Federal, State or university activities.

Representatives of agencies contributing information to past directories are listed alphabetically in Appendix A by organizational category. The SEAMAP Subcommittee would like to express its appreciation to all organizations responding to the request for information. Other organizations conducting fishery-independent marine or estuarine surveys are encouraged to contact the SEAMAP Program for inclusion in future listings. The Directory will be updated each year, with copies supplied to participating organizations.

Appendix B lists published documents which have been produced by the SEAMAP Program and are available through the Gulf States Marine Fisheries Commission. Questions and requests for detailed information concerning the Directory or the SEAMAP Program should be referred to:

David Donaldson
SEAMAP-Gulf Coordinator
Gulf States Marine Fisheries Commission
Post Office Box 726
Ocean Springs, Mississippi 39564
(601) 875-5912

TABLE 1. SUMMARY OF INFORMATION PROVIDED BY FEDERAL AGENCIES

			TYPES OF FISHERY-INDEPENDENT SAMPLING			ANNUAL EFFORT DEVOTED TO FISHERY-INDEPENDENT SAMPLING BY ACTIVITY IN:		TYPES OF GEAR				
AGENCY	TARGET SPECIES	LIFE STAGES SAMPLED	AREA SAMPLED	GEOGRAPHIC AREAS OF IMPORTANCE	TYPES OF PLATFORMS	NUMBER OF DAYS	NUMBER OF SAMPLES	FISHING, TRAWLING	PLANKTON	SAMPLE STRATEGY FOR DATA COLLECTION	ANTICIPATED CHANGES IN DIRECTION OF FISHERY-INDEPEND. ACTIVITIES OVER NEXT 5 YEARS	HIGH PRIORITY SPECIES PRESENTLY UNABLE TO SAMPLE
NOAA NMFS/SEFC Mississippi Labs, Pascagoula (MS)	Groundfish (shrimp, spot, croaker, catfish, trout)	Subadults-adults	Gulf of Mexico South Atlantic	Territorial; open ocean (EEZ)	172' OREGON II	80/yr toward target species; 102/yr total sea days	500/yr trawl stations, 100 plankton/yr 100 neuston/yr	Standard 40' semibalioon trawl; High-opening fish trawl	Bongo array with .333-mm mesh nets; 1 x 2-m neuston net with .947mm mesh	Random (stratified) 5-60 fm	None	None
	Reef fish (snaper, grouper, tilefish)	Adults	Gulf of Mexico; South Atlantic; Caribbean	Territorial; open ocean (EEZ)	OREGON II; 127' CHAPMAN	60/yr toward target species	150 longline sets/yr	Longline; traps; gill nets; camera	None	Varies	None	None
	Latent resources (coastal herring, squid, butterfish)	Subadults-adults	Gulf of Mexico	Territorial; open ocean (EEZ)	CHAPMAN	120/yr toward target species 145/yr total sea days	400/yr trawl stations	High-opening & mid-water bottom trawls	None	Transects	Expansion	None
NOAA NMFS/SEFC Miami Lab (FL)	All recreationally & commercially important species; reef fish	Larvae; juvenile; adult	Gulf of Mexico; SW FL; SE FL	Territorial; open ocean (EEZ); internal	OREGON II; CHAPMAN; various small boats	120/yr	3500/yr	Fish traps	Bongo nets 60 & 20 cm with .333-mm mesh; neuston 1 x 2-m with .947-mm mesh	Systematic, grid basis; long-term station selection; estuary entrances; reefs	Continuation of SEAMAP; continuation of SE & SW FL monitoring	Billfishes; tunas
NOAA NMFS/SEFC Beaufort Lab (NC)	Atlantic croaker; spot	Subadults-adults	Charlotte Harbor; Tampa, Apalachicola, Pensacola, Mobile, Barataria, Corpus Christi, Galveston, San Antonio Bays; MS Sound; MS Delta; Laguna Madre Lavaca	Territorial	133' FERREL	70/yr	130 fish per sampling site	30' otter trawl	None	Samples representative of general contaminant levels at each sampling site (NOAA Status & Trends Program; National Benthic Surveillance Project; organic contaminants, trace metals, histopathology)	Project funded on yearly basis	None

TABLE 1. (CONTINUED)

			TYPES OF FISHERY-INDEPENDENT SAMPLING			ANNUAL EFFORT DEVOTED TO FISHERY-INDEPENDENT SAMPLING BY ACTIVITY IN:		TYPES OF GEAR				
AGENCY	TARGET SPECIES	LIFE STAGES SAMPLED	AREA SAMPLED	GEOGRAPHIC AREAS OF IMPORTANCE	TYPES OF PLATFORMS	NUMBER OF DAYS	NUMBER OF SAMPLES	FISHING, TRAWLING	PLANKTON	SAMPLE STRATEGY FOR DATA COLLECTION	ANTICIPATED CHANGES IN DIRECTION OF FISHERY-INDEPEND. ACTIVITIES OVER NEXT 5 YEARS	HIGH PRIORITY SPECIES PRESENTLY UNABLE TO SAMPLE
NOAA NMFS/SEFC Galveston Lab (TX)	Penaeid shrimp; bottomfish; estuarine dependent spp.	Postlarvae-adults	Gulf of Mexico	Internal; EEZ	OREGON II (Texas Closure); small boats	257/yr	1996/yr	Other trawls 10'-40'; beam trawl; drop sampler		Random stratified for Texas Closure; long-term studies for estuarine ecology	None	None
	Sea turtles	Juveniles	Gulf of Mexico	Internal; EEZ-oil and gas platforms	Bay boats; helicopters; crew boats; zodiac	12/yr 45/yr	96 Various	Otter trawls 60'-80' None	None None	Random Random	None None	None None
	Kemp's ridley sea turtles	Hatchlings-yearlings	Gulf of Mexico (release of tagged turtles)	Territorial Sea; EEZ (Texas)	U.S. Coast Guard Cutter; Univ. Texas R/V LONGHORN	2	1-2 releases per year	None	None	None	None	None
	Sea turtles	Stranded juveniles-adults	SW LA; TX	Coastline beaches	All terraine vehicles; dirt bikes; outboard boats	50	Variable	None	None	Twice-monthly stratified random sampling by beach strata	None	None
NOAA NMFS/SEFC Panama City Lab (FL)	King & Spanish mackerel	Subadults-adults; larvae	Gulf of Mexico; South Atlantic	Territorial; open ocean (EEZ)	OREGON II; CHAPMAN; small boats	50/yr	Various	Trawls; longlines; trolling	Bongo nets 60 & 20 cm with .333-mm mesh; neuston 1 x 2-m with .947-mm mesh; tucker trawl	Systematic, grid basis; long-term station selection; oceanic discon-tinuities	Continuation of SEAMAP;	None

TABLE 1. (CONTINUED)

			TYPES OF FISHERY-INDEPENDENT SAMPLING			ANNUAL EFFORT DEVOTED TO FISHERY-INDEPENDENT SAMPLING BY ACTIVITY IN:		TYPES OF GEAR				
AGENCY	TARGET SPECIES	LIFE STAGES SAMPLED	AREA SAMPLED	GEOGRAPHIC AREAS OF IMPORTANCE	TYPES OF PLATFORMS	NUMBER OF DAYS	NUMBER OF SAMPLES	FISHING, TRAWLING	PLANKTON	SAMPLE STRATEGY FOR DATA COLLECTION	ANTICIPATED CHANGES IN DIRECTION OF FISHERY-INDEPEND. ACTIVITIES OVER NEXT 5 YEARS	HIGH PRIORITY SPECIES PRESENTLY UNABLE TO SAMPLE
U.S. Dept. of Interior, Fish & Wildlife, LSU, Baton Rouge, LA	All economically important estuarine-dependent fishes & crustaceans	Larvae-juveniles	SW LA; south central LA	Estuarine	35-hp outboard	Varies	Once every two weeks	Custom-designed shallow marsh trawl; traps;	None	Systematic, long-term station selection; short-term special studies	Depending on funding, will remain the same	None
U.S. Army Corps of Engineers, Mobile, AL	All commercially & recreationally important species	All stages	Mobile Bay; MS Sound; Gulf of Mexico to the 20-fm contour	Internal; territorial	Charter research vessel; small boats	Varies with project	Varies with project	Varies	None	Systematic, random, short-term special studies	None	None
USDI MMS/GOM OCS Region New Orleans, LA	Projects are as follows:											
Protected Species Study	All sea turtles & cetaceans	Adult	Central northern Gulf	Continental shelf & slope	Aerial over flights; contracted fishing vessel; R/V CHAPMAN	40	--	Photos; videos	None	Stratified X-sects	Project to end in 1990	None
MS/AL Pinnacle Trend Study	None	None	MS/AL outer shelf	Shelf to 200 m	R/V TOMMY MUNRO	14/yr	Varies	None	None	Side-scan and and photography cruises	Project to begin in 1990	None
Flower Garden Monitoring Study	Corals	Mature colonies	East and west Flower Garden Banks	Reef	M/V FLING; Motor vessels	18/yr	Varies	None	None	Photographs, video tape and diver surveys	Project to end in 1991	None
LA/TX Shelf Program	None	N/A	LA/TX continental slope & shelf	Continental shelf	Moored and drifting buoys; Ships and aircraft	N/A	N/A	None	None	Hydrographic and current measurements	Project to begin in 1990	None

TABLE 2. SUMMARY OF INFORMATION PROVIDED BY STATE AGENCIES

			TYPES OF FISHERY-INDEPENDENT SAMPLING			ANNUAL EFFORT DEVOTED TO FISHERY-INDEPENDENT SAMPLING BY ACTIVITY IN:		TYPES OF GEAR				
AGENCY	TARGET SPECIES	LIFE STAGES SAMPLED	AREA SAMPLED	GEOGRAPHIC AREAS OF IMPORTANCE	TYPES OF PLATFORMS	NUMBER OF DAYS	NUMBER OF SAMPLES	FISHING, TRAWLING	PLANKTON	SAMPLE STRATEGY FOR DATA COLLECTION	ANTICIPATED CHANGES IN DIRECTION OF FISHERY-INDEPEND. ACTIVITIES OVER NEXT 5 YEARS	HIGH PRIORITY SPECIES PRESENTLY UNABLE TO SAMPLE
Alabama Dept. of Conservation & Nat. Resources	All penaeid shrimp; southern flounder; Gulf menhaden; spot; croaker; red-drum; seatrout; blue crab; black drum; Spanish mackerel; mullet	Larvae-adults	AL marshes to territorial sea	Internal; territorial; EEZ	22' Tiara, (2) 90-hp; 23' Seacraft, (2) 150-hp; 32' Laffitte	110/yr	450/yr	50' bag seine; 16' otter trawl	6' beam plankton trawl; neuston	Long-term station selection, effort varies according to spawning season of target species	Increase effort to determine year-class strength of target species; Conduct more age and growth work; Explore means to sample offshore redfish areas	King mackerel, cobia, reef fish, in open Gulf waters
Florida Dept. of Natural Resources	Red drum; spotted trout; snook; king mackerel; mullets; gag grouper; tarpon; baitfish; stone crab; blue crab; spiny lobster; oysters; hard clam	All stages, larvae-adults	FL waters & offshore	Internal; territorial; EEZ	37' BONNIE "E"; 24' T-craft inboard; 3 small outboards used for inshore sampling; 5 mullet skiffs; 34' Allmand; 24' tunnel boat; 19' Monark; 2-17' Boston Whalers; 85' HERNAN CORTEZ II; 20' Boston Whaler; 25' Boston Whaler; 3-20' MAKO; 16' Monarch; 4-20' mullet skiffs; 16' skiff	Varies Weekly intervals (annually) 60/yr	Varies with project	35' trawl 100' bag seine; benthic sled with net; 600' x 8' trammel net; lobster & crab traps	bongo array; neuston nets	Systematic, random (stratified), grid basis; long-term station selection, short-term special studies	As per Florida Marine Fisheries Commission; Increase sampling for baitfish distributed in spring and increase sampling for tarpon larvae in nearshore waters.	Mainly applies to implementation of research phases on current species or topics with additional personnel and increased funding
Louisiana Dept. of Wildlife & Fisheries	All penaeid shrimp; finfish; oysters	Larvae-adults	LA inshore waters; territorial seas; EEZ	Internal; territorial	13-17' outboards for 6' trawl; 30' inboards for 16' trawls; 85' vessel (LOOP) for 50' trawl Leased vessel 40' trawl	167/yr state 92/yr LOOP 16/yr	Plankton, 528/yr; Benthos, 56/yr; Trawls: 800/yr 1288/yr 494/yr 72/yr 12/yr 96/yr 250/yr 1500/yr 100/yr 576/yr 135/yr 144/yr	Otter Trawls: 6' (inshore) 16' (inshore) 16' (offshore) 50' (offshore) 50' (inshore) 40' (offshore) 50' bag seine; gill net; trammel net oyster: butlerplate sq. meter dredge	1/2-m surface ring nets (.153-mm & .363-mm) 1-m surface ring (363-mm) 60-cm bongo nets (.333-.363-mm) neuston (.948-mm)	Long-term station selection, LOOP monitoring, and stratified random sampling for SEAMAP (40' trawls and plankton)	Increase territorial sea sampling; increase emphasis on finfish	Adult pelagic finfish in open Gulf waters

TABLE 2. (CONTINUED)

			TYPES OF FISHERY-INDEPENDENT SAMPLING			ANNUAL EFFORT DEVOTED TO FISHERY-INDEPENDENT SAMPLING BY ACTIVITY IN:		TYPES OF GEAR				
AGENCY	TARGET SPECIES	LIFE STAGES SAMPLED	AREA SAMPLED	GEOGRAPHIC AREAS OF IMPORTANCE	TYPES OF PLATFORMS	NUMBER OF DAYS	NUMBER OF SAMPLES	FISHING, TRAWLING	PLANKTON	SAMPLE STRATEGY FOR DATA COLLECTION	ANTICIPATED CHANGES IN DIRECTION OF FISHERY-INDEPEND. ACTIVITIES OVER NEXT 5 YEARS	HIGH PRIORITY SPECIES PRESENTLY UNABLE TO SAMPLE
Mississippi Bureau of Marine Resources	All penaeid shrimp; sciaenids	Juveniles-adults	MS territorial sea	Internal; territorial; (EEZ)	32' Laffitte; 19' Proline; 65' oyster dredge boat;	50/yr; 10/yr; 50-60/yr	Varies; oyster 6/mo; shrimp 10-15/mo; varies	16' trawl; oyster tongs and dredge;	None	Long-term station selection, varies with opening and closing of areas	Increase tagging activities	
Texas Parks & Wildlife Dept.	All penaeid shrimp; all other species	Juveniles-adults	TX internal coastal waters; territorial sea	Internal; territorial	30'-45' inboards; 18'-21' outboards; skiffs	365/yr	2022/yr 1680/yr 960/yr 760/yr 2520/yr 294/yr	60' bag seines (shoreline); 20' trawl (bay, open water); 20' trawl (Gulf waters); gill nets for adult finfish (along shore); oyster dredge; beach seine	None	Random, grid basis	None	Adult finfish in open Gulf waters

TABLE 3. SUMMARY OF INFORMATION PROVIDED BY UNIVERSITIES

			TYPES OF FISHERY-INDEPENDENT SAMPLING			ANNUAL EFFORT DEVOTED TO FISHERY-INDEPENDENT SAMPLING BY ACTIVITY IN:		TYPES OF GEAR				
UNIVERSITY	TARGET SPECIES	LIFE STAGES SAMPLED	AREA SAMPLED	GEOGRAPHIC AREAS OF IMPORTANCE	TYPES OF PLATFORMS	NUMBER OF DAYS	NUMBER OF SAMPLES	FISHING, TRAWLING	PLANKTON	SAMPLE STRATEGY FOR DATA COLLECTION	ANTICIPATED CHANGES IN DIRECTION OF FISHERY-INDEPEND. ACTIVITIES OVER NEXT 5 YEARS	HIGH PRIORITY SPECIES PRESENTLY UNABLE TO SAMPLE
FLORIDA												
Florida State Tallahassee	Benthic infauna; epibenthic fishes & invertebrates	Larvae-adults	NE Gulf of Mexico	Internal; territorial	(3) 55-hp 25' skiffs; outboard	48/yr	Monthly samples, both trawl & environ.	Standard 5-m otter trawl	80-um plankton net	Systematic, random long-term station selection; short-term special studies	More environmental experimentation	Areas: Apalachicola Bay system & Apalachee Bay; species: all species in those areas
Univ. West Florida Pensacola	Demersal vertebrates & invertebrates	Subadults-adults	NE Gulf of Mexico	Estuarine	18' skiff	7/yr trawl; 14/yr plankton neuston	50/yr; 140/yr	16' otter trawl	2 (1-m) bongos 3 (1-m) neustons	Systematic, random (stratified)	More environmental assess-assessment	None
Florida Sea Grant Gainesville	All species	All stages	Gulf; Caribbean; South Atlantic	Estuarine; offshore	Industry, NMFS and F.I.O. contract vessels	Varies with project	Varies with project			Varies with project	None	None
Florida Institude of Oceanography St. Petersburg	All species	All stages	Gulf; Caribbean; South Atlantic	Internal, territorial	SUNCOASTER; BELLOWS	20-30/project	Varies	40' otter trawl: Tucker trawl; shellfish dredge	Various plankton nets	Random, long-term station selection; short-term special studies	To continue with SEAMAP; Expanded environmental sampling	None
University of Florida Gainesville	Offshore: deep-water crabs & lobsters; nearshore: stone crabs	Offshore: adults, juveniles; nearshore: adults, subadults	Offshore & nearshore, eastern Gulf of Mexico	Offshore: continental slope nearshore: internal, territorial	Offshore: SEWARD JOHNSON; OREGON II; industry vessel; sumersible; nearshore: 24' inboard-outboard	Offshore: 7/yr; nearshore: 30+/yr	Offshore: 96 transects 2 trawl tows 5 trap lines nearshore: 5 transects/day	Otter trawl; various traps; scuba and 250-m transect line		Offshore & Nearshore: intensive sampling during mating season	None	None
University of Miami	All species	All stages	Gulf; Caribbean; South Atlantic	Estuarine; offshore; nearshore	Offshore: COLUMBUS ISELIN nearshore: CALANUS estuarine: 25' I/O's	240/yr 200/yr 150/yr	Varies with project X X	Hydroacoustics	Various plankton nets	Varies with project	More hydroacoustics	None

TABLE 3. (CONTINUED)

			TYPES OF FISHERY-INDEPENDENT SAMPLING			ANNUAL EFFORT DEVOTED TO FISHERY-INDEPENDENT SAMPLING BY ACTIVITY IN:		TYPES OF GEAR				
UNIVERSITY	TARGET SPECIES	LIFE STAGES SAMPLED	AREA SAMPLED	GEOGRAPHIC AREAS OF IMPORTANCE	TYPES OF PLATFORMS	NUMBER OF DAYS	NUMBER OF SAMPLES	FISHING, TRAWLING	PLANKTON	SAMPLE STRATEGY FOR DATA COLLECTION	ANTICIPATED CHANGES IN DIRECTION OF FISHERY-INDEPEND. ACTIVITIES OVER NEXT 5 YEARS	HIGH PRIORITY SPECIES PRESENTLY UNABLE TO SAMPLE
ALABAMA												
Marine Environmental Sciences Consortium (University of South AL) U. Alabama)	Sciaenidae; hard clam	Larval/adult	Shelf and mouth of Mobile Bay, NW Florida and east AL	Shelf/ estuaries/ grassbeds	21' skiffs	22/24 episodic/ quarterly	Several hundred	-	Surface and demersal	Environmental impact/growth rate	Shift toward managment application	None
Marine Environmental Sciences Consortium (University of AL)	Oysters; blue crab	Larval/adult	Mobile Bay and east MS Sound	Estuarine	26'-42' research vessels	Biweekly and 48 hour time series	Hundreds	-	Clark-Bumpers zooplankton	Distribution patterns; settlement factors	None	None
Mississippi-Alabama Sea Grant Consortium Ocean Springs (MS)	Red drum; blue crabs; stone crabs; oysters	Vertebrates: larvae; invertebrate: all stages	Northern Gulf of Mexico; MS Sound; Mobile Bay	Territorial; EEZ; estuarine; coastal	96' TOMMY MUNRO; skiffs; industry	Varies with project	Varies with project	Various types of crab pots; tonging for oysters; closed, recirculating seawater system for crabs; opening/closing plankton trawl	Tucker trawl (.202-mm and .333-mm mesh nets); 60-cm bongo net	Varies with project	None	None
	Estuarine fish species	Juvenile to sub-adult	Weeks Bay, AL	Estuarine	14' skiffs	60/yr	180/yr	Block nets/ seine		Random concentrated in May, July and September		None
MISSISSIPPI												
Univ. So. Mississippi Hattiesburg	All estuarine finfish; centrarchids		MS estuarine; northern Gulf; Biloxi Bay	Estuarine; territorial	Various small skiffs (outboard)	Varies	Varies with project	Standard basic equipment	Standard basic equipment	Short-term special studies	Increase development of marine and coastal biology program	None

TABLE 3. (CONTINUED)

UNIVERSITY	TARGET SPECIES	LIFE STAGES SAMPLED	TYPES OF FISHERY-INDEPENDENT SAMPLING: AREA SAMPLED	GEOGRAPHIC AREAS OF IMPORTANCE	TYPES OF PLATFORMS	ANNUAL EFFORT DEVOTED TO FISHERY-INDEPENDENT SAMPLING BY ACTIVITY IN: NUMBER OF DAYS	NUMBER OF SAMPLES	TYPES OF GEAR: FISHING, TRAWLING	PLANKTON	SAMPLE STRATEGY FOR DATA COLLECTION	ANTICIPATED CHANGES IN DIRECTION OF FISHERY-INDEPEND. ACTIVITIES OVER NEXT 5 YEARS	HIGH PRIORITY SPECIES PRESENTLY UNABLE TO SAMPLE
MISSISSIPPI												
Gulf Coast Research Laboratory Ocean Springs	All penaeid shrimp; blue crab; croaker; spot; seatrout; catfish; Gulf menhaden; sea mullet; Atlan. bumper; butterfish; cutlassfish; red drum; squid; golden Gulf crabs	Larvae-adults	MS territorial sea; offshore to 300 fm	Internal; territorial; (EEZ)	96' TOMMY MUNRO; (5) 20' skiffs; 35' HERMES; 40' NEREUS;	Semimonthly and monthly	216 trawl stations/yr	50' bag seine; 36' otter trawl; 16' otter trawl; 6' Renfro beam trawl; variable mesh gill net sampler; 40' shrimp trawl; 80' high-rise net; crab traps	Tucker trawl; neuston; bongo	Long-term station selection; stratified-random	Fishery Division anticipates its program of monitoring & assessment over the long term, with appropriate increases in intensity & scope if funds become available; longline for pelagic fishes; bottom longline; deepwater traps for crabs	None
Mississippi-Alabama Sea Grant Consortium Ocean Springs	Red drum; blue crabs; stone crabs; oysters	Vertebrates larvae; invertebrates: all stages	Northern Gulf of Mexico; MS Sound; Mobile Bay	Territorial; EEZ; estuarine; coastal	96' TOMMY MUNRO; skiffs; industry	Varies with project	Varies with project	Various types of crab pots; tonging for oysters; closed, recirculating seawater system for crabs; opening/closing ichthy. trawl	Tucker trawl (.202-mm and .333-mm mesh nets); 60-cm bongo net	Varies with project	None	None
LOUISIANA												
Univ. New Orleans New Orleans	Blue crab; oysters; marine commercial finfish	All stages	Lake Pontchartrain; Lake Borgne	Estuarine		Varies				Short-term special studies	Analyze commercial fish populations by use of electrophoresis; studies of oyster nutrition and parasitology	None

TABLE 3. (CONTINUED)

			TYPES OF FISHERY-INDEPENDENT SAMPLING			ANNUAL EFFORT DEVOTED TO FISHERY-INDEPENDENT SAMPLING BY ACTIVITY IN:		TYPES OF GEAR				
UNIVERSITY	TARGET SPECIES	LIFE STAGES SAMPLED	AREA SAMPLED	GEOGRAPHIC AREAS OF IMPORTANCE	TYPES OF PLATFORMS	NUMBER OF DAYS	NUMBER OF SAMPLES	FISHING, TRAWLING	PLANKTON	SAMPLE STRATEGY FOR DATA COLLECTION	ANTICIPATED CHANGES IN DIRECTION OF FISHERY-INDEPEND. ACTIVITIES OVER NEXT 5 YEARS	HIGH PRIORITY SPECIES PRESENTLY UNABLE TO SAMPLE
LOUISIANA												
McNeese St. University Lake Charles	Periphyton chemical		Calcasieu Estuary	Estuarine		Varies	Monthly	Periphytona			None	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	2 more years with oyster project before it ends	None
University of Southwestern Louisiana Lafayette	Stone crabs; penaeid shrimp; commercial finfish	All stages	Northern Gulf of Mexico	Coastal; estuarine	Various LUMCOM vessels	Varies	Varies	Trawl; dredge; traps; pots; seines		Varies by population	None	None
Louisiana St. University Baton Rouge	Estuarine & marine finfish species; decapod crustaceans	All stages	Barataria Bay; Lake Pontchartrain; MS River mouth; Atchafalaya; Terrebonne Bay; Timbalier Bay	Estuarine; territorial; (EEZ)	Small skifts; PELICAN; ACADIANA; oil & gas structures	Varies monthly	Varies with project	Drop BOT sampler; gill nets; Hydroacoustics trawl	MOONESS opening and closing bongo nets; general plankton nets	Short-term special studies; long-term stations; Radar	Estimate fish abundance & movement using hydroacoustics; Examine growth rates & reproduction biology of important estuarine species	
Louisiana Universities Marine Consortium Cocodrie	Zooplankton; benthos; bottomfish; anchovies	All stages	Terrebonne and Timbalier Bays; Inner Cont. Shelf	Estuarine; coastal	110' PELICAN; 58' R/V ACADIANA; small outboards; 19-m, 32-m vessels	Varies	Varies	5-m otter trawl	.333-mm & .505-mm mesh bongo nets	Fixed station transects	None	None

TABLE 3. (CONTINUED)

UNIVERSITY	TARGET SPECIES	LIFE STAGES SAMPLED	TYPES OF FISHERY-INDEPENDENT SAMPLING: AREA SAMPLED	GEOGRAPHIC AREAS OF IMPORTANCE	TYPES OF PLATFORMS	ANNUAL EFFORT DEVOTED TO FISHERY-INDEPENDENT SAMPLING BY ACTIVITY IN: NUMBER OF DAYS	NUMBER OF SAMPLES	TYPES OF GEAR: FISHING, TRAWLING	PLANKTON	SAMPLE STRATEGY FOR DATA COLLECTION	ANTICIPATED CHANGES IN DIRECTION OF FISHERY-INDEPEND. ACTIVITIES OVER NEXT 5 YEARS	HIGH PRIORITY SPECIES PRESENTLY UNABLE TO SAMPLE
TEXAS												
Univ. of TX, Austin Marine Science Institute, Port Aransas	Shelf & bay species	All stages	Internal; territorial waters	Internal; territorial; (EEZ)	105' LONGHORN 57' KATY	100/yr	Varies with project	42' semi-balloon shrimp trawl; 40' semi-balloon otter 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	Internal; coastal		24/yr	150/yr			Short-term special studies	None	None
Texas A & M College Station and Galveston	All macrocrustaceans and finfish	All stages	NW Gulf off LA & TX	Internal; territorial; (EEZ)	71' EXCELLENCE II; 47' ROAMIN EMPIRE	Varies	Varies with project	34' & 50' semi-balloon trawls	Bongo net with .333-mm & .505-mm mesh	Short-term special studies	None	None
University of Texas-Pan American Coastal Stud-Lab, So. Padre Island	All finfish of Laguna Madre, benthic macrofauna of Laguna Madre	All stages	Corpus Christi to Brownsville	Laguna Madre; Gulf nearshore	Shallow-draft bay boats	48/yr	Biweekly and monthly depending on project	Otter trawls & bag seines	Plankton tows	Long-term baseline studies	Intensive studies of individual species	None

APPENDIX A

MARINE AGENCY CONTACTS

FEDERAL AGENCIES

U.S. DEPARTMENT OF COMMERCE
NOAA/NATIONAL MARINE FISHERIES SERVICE
Southeast Fisheries Center

Dr. Brad Brown, Acting Director
75 Virginia Beach Drive
Miami, Florida 33149
(305) 361-4284

Miami Laboratory
Dr. Joseph Powers
75 Virginia Beach Dr.
Miami, FL 33149
(305) 361-4225

Galveston Laboratory
Dr. Edward Klima
4700 Avenue "U"
Galveston, TX 77550
(409) 766-3500

Mississippi Laboratories
Dr. Walter Nelson
Pascagoula Facility
P.O. Drawer 1207
Pascagoula, MS 39568
(601) 762-4591

Panama City Laboratory
Dr. Eugene Nakamura
3500 Delwood Beach Rd.
Panama City, FL 32408
(904) 234-6541

National Space Technology
Laboratories
Stennis Space Center, MS 39529
(601) 688-3650

Beaufort Laboratory
Dr. Ford Cross
Beaufort, NC 28516
(919) 728-8724

Statistics and Data Management Office
Dr. Albert Jones
75 Virginia Beach Dr.
Miami, FL 33149
(305) 361-4259

FEDERAL AGENCIES

U.S. DEPARTMENT OF INTERIOR

Minerals Management Service
Dr. Richard Defenbaugh
1201 Elmwood Park Blvd.
New Orleans, LA 70123-2394
(504) 736-2896

Dr. Robert M. Avent
Continental Slope Study
Florida Shelf Ecosystems Study
(504) 736-2899

Dr. Murray Brown
Circulation Modelling Program
Field Measurements Program
(504) 736-2901

U.S. Fish and Wildlife Service

Mr. Roy Perez
c/o Corpus Christi State University
Campus Box 338
6300 Ocean Drive
Corpus Christi, TX 78412
(512) 888-3346

Mr. Barton Rogers
Louisiana Cooperative Fishery
Research Unit
Louisiana State University
Baton Rouge, LA 70803
(504) 388-4178

U.S. DEPARTMENT OF DEFENSE

Dr. Susan Rees, PD-EC
U.S. Army Corps of Engineers
Dept. of Denfense
P.O. Box 2288
Mobile, AL 36628
(205) 690-2724

GULF AND SOUTH ATLANTIC FISHERIES DEVELOPMENT FOUNDATION, INC.
Ms. Judy Jamison, Executive Director
5401 W. Kennedy Blvd.
Suite 669
Tampa, FL 33609
(813) 286-8390

STATE AGENCIES

ALABAMA DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES
Mr. Walter M. Tatum
Drawer 458
Gulf Shores, AL 36542
(205) 968-7576

FLORIDA DEPARTMENT OF NATURAL RESOURCES
MARINE RESEARCH INSTITUTE
Mr. J. Alan Huff
100 8th Avenue, S.E.
St. Petersburg, FL 33701
(813) 896-8626

LOUISIANA DEPARTMENT OF WILDLIFE AND FISHERIES
Mr. Barney Barrett
P.O. Box 98000
Baton Rouge, LA 70898-9000
(504) 765-2390

MISSISSIPPI DEPARTMENT OF WILDLIFE, FISHERIES AND PARKS
Bureau of Marine Resources
Mr. Tom Van Devender
2620 Beach Blvd.
Biloxi, MS 39531
(601) 385-5860

TEXAS PARKS AND WILDLIFE DEPARTMENT
Dr. Gary Matlock
4200 Smith School Road
Austin, TX 78744
(512) 389-4857

UNIVERSITIES

SEA GRANT PROGRAMS

Florida Sea Grant Office
Dr. James Cato, Director
Dr. Bill Seaman, Assoc. Director
Building 803
University of Florida
Gainesville, FL 32611
(904) 392-5870

Mississippi-Alabama Sea Grant Consortium
Dr. James Jones
P.O. Box 7000
Ocean Springs, MS 39564-7000
(601) 875-9341

Louisiana Sea Grant Office
Dr. Jack Van Lopik, Director
Mr. Ronald Becker, Assoc. Director
Center for Wetland Resources
Louisiana State University
Baton Rouge, LA 70803
(504) 388-1558

Texas Sea Grant Office
Mr. Tom Bright, Director
Texas A & M University
College Station, TX 77843
(409) 845-3854

ALABAMA UNIVERSITY PROGRAMS

Alabama Marine Environmental Sciences Consortium
Dauphin Island Sea Lab
Dr. George F. Crozier
P.O. Box 369-370
Dauphin Island, AL 36528
(205) 861-2141

Talladega College
Dr. Arthur Bacon
Biology Department
Talladega, AL 35160
(205) 362-0206

University of South Alabama
Dr. Robert Shipp
Department of Biological Sciences
Mobile, AL 36683
(205) 460-6101

FLORIDA UNIVERSITY PROGRAMS

Florida Institute of Oceanography
Dr. John C. Ogden
830 First St., South
St. Petersburg, FL 33701
(813) 893-9100

Florida State University
Dr. Robert Livingston
Department of Biological Sciences
Tallahassee, FL 32306
(904) 644-1466

UNIVERSITIES

FLORIDA UNIVERSITY PROGRAMS (CONTINUED)

University of Florida
Dr. Ron Labisky
School of Forest Resources
and Conservation
Gainesville, FL 32611
(904) 392-4851

University of Florida
Dr. William Lindberg
Dept. of Fisheries and Aquaculture
7922 NW 71st Street
Gainesville, FL 32606-0300

University of South Florida
Dr. Norman J. Blake
Department of Marine Science
140 Seventh Avenue, South
St. Petersburg, FL 33701
(810) 893-9130

University of Miami
Dr. Nelson M. Ehrhardt
Rosenstiel School of Marine
and Atmospheric Science
4600 Rickenbacker Causeway
Miami, FL 33149
(305) 284-2211

University of West Florida
Dr. Steve Bortone
Dept. of Biology
Pensacola, FL 32514
(904) 474-2000

LOUISIANA UNIVERSITY PROGRAMS

Louisiana State University
Dr. Mike Wascom
Coastal Fisheries Institute
Center for Wetland Resources
Baton Rouge, LA 70803
(504) 388-6513

Louisiana Universities
Marine Consortium (LUMCON)
Dr. Donald Boesch
Chauvin, LA 70344
(504) 851-2800

McNeese State University
Dr. Robert Maples
Department of Biological Sciences
4100 Ryan St.
Lake Charles, LA 70609
(318) 475-5674

Nicholls State University
Dr. John Green
Department of Biological Sciences
Thibodeaux, LA 70301
(504) 446-8111

University of New Orleans
Dr. Thomas M. Soniat
Department of Biological Sciences
New Orleans, LA 70148
(504) 286-6307

University of Southwestern
Louisiana
Dr. Darryl L. Felder
Department of Biological Sciences
Box 42451
Lafayette, LA 70504
(318) 231-6748

UNIVERSITIES

MISSISSIPPI UNIVERSITY PROGRAMS

Gulf Coast Research Laboratory
Dr. Thomas McIlwain
P.O. Box 7000
Ocean Springs, MS 39564
(601) 875-2244

University of Southern Mississippi
Dr. Steve Ross
Department of Biological Sciences
Hattiesburg, MS 29401
(601) 266-4928

TEXAS UNIVERSITY PROGRAMS

University of Texas-Pan American
Dr. Frank W. Judd
Coastal Studies Laboratory
P.O. Box 2591
South Padre Island, TX 78597
(512) 761-2644

Texas A & M University
Dr. Andre M. Landry
Department of Marine Biology
Mitchell Campus
P.O. Box 1675
Galveston, TX 77553
(409) 740-4400

Texas A & I University
Dr. Allan H. Chaney
Department of Biology
Campus Box 158
Kingsville, TX 78363
(512) 595-3803

University of Houston
Dr. Al Loeblich
Dept. of Biology
Houston, TX 77204-5513
(713) 749-1011
(409) 766-3500

The University of Texas at Austin
Dr. Robert S. Jones
Marine Science Institute
P.O. Box 1267
Port Aransas, TX 78373
(512) 749-6730

APPENDIX B

SEAMAP DOCUMENTS

SEAMAP DOCUMENTS LIST, 1982 - CURRENT

1) SEAMAP Strategic Plan, January 1981. The initial planning document describing the intent to develop the SEAMAP Program and outlining the preliminary goals and objectives, assessment requirements and priorities, research strategies, and funding requirements.

2) SEAMAP Quick-Reports (Data Summaries): six summaries, June-July 1981; seven summaries, June-July 1983; seven summaries, June-July 1984; five summaries, June- July 1985; five summaries, June-July 1986; six summaries, June-July 1987; five summaries, June-July 1988; six summaries, June-July 1989. Summaries of catch rate information from the SEAMAP Summer Shrimp/Groundfish surveys (Squid/Butterfish Survey, 1985 only) in the northern Gulf of Mexico, indicating stations sampled, catch rates, assessment of shrimp and finfish yields, and synopses of hypoxic conditions in the survey areas.

3) 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990 SEAMAP Marine Directories: May 1983, March 1984, March 1985, March 1986, September 1987, July 1988, August 1989, and June 1990. Inventories of marine agency contacts (State, Federal and university) concerned with fishery research in the Gulf, and summaries of information provided by these organizations: target species, types of fishery-independent sampling gear and platforms, annual sampling effort and other material.

4) SEAMAP Information System Manual, Fall 1983. A description of the data management program supporting SEAMAP surveys and collecting activities, detailing the data processing and quick-report subsystems and presenting data formats for SEAMAP surveys and sample documentation and transmittal forms.

5) SEAMAP-Gulf Operations Plan, October 1983. A description of the SEAMAP Program, its goals and objectives, program accomplishments, survey and information systems operations, survey plans and schedules, program management, and funding requirements. Includes figures and tables detailing system functions, platform and funding needs, and information utilization.

6) SEAMAP-Gulf Operations Plan Executive Summary, March 1984. A summary of the features of the Operations Plan.

7) SEAMAP Environmental and Biological Atlases of the Gulf of Mexico, 1982, 1983, 1984, 1985, 1986, January 1985; February 1986; October 1986; June 1988; April 1990. Compilations of information obtained from the 1982, 1983, 1984 and 1985 SEAMAP surveys. Included are dominant finfish and invertebrate catches from the shrimp/groundfish surveys, results of the plankton surveys, environmental data taken during both surveys, and methodology used in SEAMAP surveys.

8) SEAMAP 1982, 1983 Ichthyoplankton Atlases. NOAA Technical Memoranda NMFS-SEFC-144 (1985) and NMFS-SEFC (1986) summarizing in plots the larval distribution and abundance of the families Engraulidae, Carangidae, Clupeidae, Lutjanidae, Serranidae, Coryphaenidae, Xiphiidae, and Scombridae taken on SEAMAP surveys in 1982 and 1983.

SEAMAP DOCUMENTS LIST, 1982 - CURRENT

9) Proceedings: SEAMAP Shrimp and Bottomfish Sampling Gear Workshop, August 1985. A summary of seven technical papers and a panel discussion on shrimp/groundfish sampling gear, presented at the 33rd Annual Spring Meeting of the Gulf States Marine Fisheries Commission. Included are recommendations for standardizing and calibrating bottom trawl survey activities and for satisfying future research requirements.

10) Annual Report of the Southeast Area Monitoring and Assessment Program,
October 1, 1984 - September 30, 1985, October 1985;
October 1, 1985 - September 30, 1986, October 1986;
October 1, 1986 - September 30, 1987, December 1987;
October 1, 1987 - September 30, 1988, August 1989;
October 1, 1988 - September 30, 1989, March 1990.
Summaries of activities and proposed events for the SEAMAP-Gulf, SEAMAP-South Atlantic and SEAMAP-Caribbean components.

11) Data Management System Requirements Document for Gulf and South Atlantic, November 1986.

12) Data Management System Design Study for Gulf and South Atlantic, March 1987. A result of the system design study, this documents describes the high level design of the proposed system and presents a five year implementation plan.

13) SEAMAP Operations Manual for Collection of Data, May 1987; revised May 1990. A manual presenting the procedures to be followed by all vessels that participate in SEAMAP surveys.

14) SEAMAP Data Management System Users Manual, August 1989. A manual outlining system operations and procedures needed to enter, edit, upload and download data on the PC- based system.

Biological and environmental data, and ichthyoplankton specimens sorted to the family level from SEAMAP surveys in the Gulf of Mexico, are available to researchers upon request to the SEAMAP Coordinator, Gulf States Marine Fisheries Commission (601/ 875-5912).