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1986 seamap

GULF OF MEXICO

marine directory

gulf states
marine fisheries commission
march 1986

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1986 SEAMAP-GULF OF MEXICO MARINE DIRECTORY
Fishery-Independent Survey Activities

SOUTHEAST AREA MONITORING AND ASSESSMENT PROGRAM
Walter M. Tatum, Chairman

GULF STATES MARINE FISHERIES COMMISSION
Post Office Box 726
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MARCH 1986

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 and SEAMAP-South Atlantic programs; a SEAMAP-Caribbean program is currently in the planning stage.

This Marine Directory, incorporated into the Thirty-sixth Annual Report of the Gulf States Marine Fisheries Commission, updates information contained in the 1983, 1984 and 1985 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 1985 Directory were contacted in January 1986 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:

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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	Territorial; open ocean (FCZ)	172' OREGON II	70/yr toward target species; 70/yr total sea days	1644/yr trawl stations, 180 plankton/yr 180 neuston/yr	Standard 40' semibal-loon trawl	Bongo array with .333-mm mesh nets; 1 x 2-m neuston net with .947mm mesh	Random (stratified) 5-50 fm	None	None
	Reef fish (snaper, grouper, tilefish)	Adults	Gulf of Mexico; South Atlantic; Caribbean	Territorial; open ocean (FCZ)	OREGON II; 127' CHAPMAN; submersible	30/yr toward target species	100 longline sets/yr	Longline; traps	None	Stratified random	None	None
	Latent resources (coastal herring, squid, butterfish)	Subadults-adults	Gulf of Mexico	Territorial; open ocean (FCZ)	CHAPMAN	140/yr toward target species 180/yr total sea days	400/yr trawl stations	High-opening & mid-water bottom trawls	None	Transects	Expansion	None
					OREGON II	60/yr	200/yr trawl stations	80' high-opening trawl	None	Transects	Expansion	None
	Marine mammals; sea turtles	Subadults-adults	MS Sound	Internal; territorial	Outboard 100 hp; airplane	72/yr	None	None	None	Transects	None	None
NOAA NMFS/SEFC Miami Lab (FL)	All recreationally & commercially important species reelish	Larvae juvenile + adult	Gulf of Mexico; SW FL SE Fl.	Territorial; open ocean (FCZ); internal	OREGON II; CHAPMAN; various small boats	35/yr 120yr	1500/yr +2,000	None fishtrap	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 FL monitoring	None billfishes tunas
NOAA NMFS/SEFC Beaufort Lab (NC)	Atlantic croaker; spot	Subadults-adults	Charlotte Harbor; Tampa, Apalachicola, Escambia, Mobile, Barataria, Corpus Christi, Galveston Bays; MS Sound; MS Delta; Laguna Madre	Territorial	133' FERREL	70/yr	90 fish per sampling site	30' otter trawl	None	Samples representative of general contaminant levels at each sampling site (NOAA Status & Trends project; organic contaminants, trace metals, histopathology)	Project funded on yearly basis	None
NOAA NMFS/SEFC Galveston Lab (TX)	Penaeid shrimp; lane snapper; red snapper; rock sea bass, so. kingfish; dwarf sand perch; blackfin sea robin; inshore lizardfish; bighead sea robin; ocellated flounder	Postlarvae-adults	Gulf of Mexico	Internal, FCZ	OREGON II (Texas Closure); small boats	39/yr 78/yr		Standard 40' semibal-loon trawl	Bongo nets 60 & 20 mm with .333-mm mesh; neuston 1 x 2-m with .947-mm mesh	Random stratified for Texas Closure; short-term special studies for estuarine ecology	None	None
NOAA NMFS/SEFC Panama City Lab (FL)	Bluefish; king & Spanish mackerel	Subadults-adults; larvae	Gulf of Mexico; South Atlantic	Territorial; open ocean (FCZ)	OREGON II; CHAPMAN; small boats	50/yr	50/yr	Trawla	Bongo nets 60 & 20 cm with .333-mm mesh; neuston 1 x 2-m with .947-mm mesh	Systematic, grid basis; long-term long-term station selection estuary entrances	Continuation of SEAMAP; continuation of SE FL monitoring	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	Estuarine	275-hp mudboat; 250-hp airboat; 35-hp outboard	365/yr	Varies with project	16' flat otter trawl	.5-m 0000 plankton net; 6' beam trawl with 0000 mesh	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 Regional OCS Office, Metairie, LA Physical oceanography: Field Measurements Program	None	None	Gulf-wide	Shelf & slope	GYRE; SUNCOASTER; Drifting (satellite-tracked) buoys; ships of opportunity (SOOPS)	Ships: ± 40 sea days/yr to 1987; Buoys: 200-500 buoy days/yr; SOOPS: 70 transects of Gulf basin/yr	Hydrographic records	None	None	Fixed location current meter moorings; selected hydrographic station transects; random locators for buoys only; repeating transects for SOOPs	Anticipated end of program; May-June, 1987 contractors: Science Applic. Int.; Nat. Data Buoy Center; NMFS	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
Texas Parks & Wildlife Dept.	All penaeid shrimp; all other species	Juveniles-adults	TX internal coastal waters; territorial sea	Internal; territorial	30' inboard & 18' outboard skiffs; 40'-45' inboards	365/yr	1080/yr 1680/yr 768/yr 756/yr 32/yr 5232/yr 720/yr	60' bag seines (shoreline); 20' trawl (bay, open water); 20' trawl (Gulf waters); gill nets for adult finfish (along shore); 40' trawl (Gulf waters); oyster dredge; beach seine (Gulf beach)	None	Random, grid basis	None	Adult finfish in open Gulf waters
Louisiana Dept. of Wildlife & Fisheries	All penaeid shrimp; groundfish	Larvae-adults	LA inshore waters; territorial seas; FCZ	Internal; territorial	13-17' outboards for 6' trawl; 30' inboards for 16' trawls; 85' vessel (LOOP) for 50' trawl	167/yr state 92/yr LOOP	Plankton, 1285/yr; Benthos, 56/yr; Trawls: 1225/yr 1288/yr 494/yr 72/yr 12/yr	Otter Trawls: 6' (inshore) 16' (inshore) 16' (offshore) 50' (offshore) 50' (inshore) 40' (offshore)	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 commercial finfish	Most of the important commercial & recreational catch
					Leased vessel 40' trawl	16/yr	96/yr					
Mississippi Bureau of Marine Resources	All penaeid shrimp; speckled trout; redfish; mullet; black drum; flounder; snapper; grouper; white trout; so. kingfish; menhaden; blue crab	Juveniles-adults	MS territorial sea	Internal; territorial; (FCZ)	32' Laffitte; 19' Cobia; 65' oyster dredge boat	50/yr; 10/yr; 50-60/yr	Varies; oyster 6/mo; shrimp 10-15/mo	~~12' and~~ 16' trawl; oyster tongs and dredge gillnets	None	Long-term station selection, varies with opening and closing of areas	Increase and expand mackerel, snapper, grouper research with age and growth length frequency	Highest priority are shrimp and oysters; finfish, inadequate personnel
Alabama Dept. of Conservation & Nat. Resources	All penaeid shrimp; southern flounder; Gulf menhaden; spot; croaker; red-drum; seatrout; blue crab	Larvae-adults	AL marshes to territorial sea	Internal; territorial	22' Tiara, (2) 90-hp; 23' Seacraft, (2) 115-hp; 32' Laffitte	110/yr	626/yr	50' bag seine; 16' otter trawl	6' beam plankton trawl; neuston net	Long-term station selection	More intensive work with target species, i.e., tagging	Increase level of sampling in AL territorial sea
Florida Dept. of Natural Resources	Red drum; spotted trout; snook; king mackerel; mullets; gag grouper; tarpon; stone crab; blue crab; spiny lobster; oysters; hard clam	All stages, larvae-adults	FL waters & offshore	Internal, territorial	37' BONNIE "E"; 27' Sea Star twin i/o; 24' T-craft inboard; 2 small outboards used for inshore sampling; 1 mullet skiff; 34' Allmand; 24' tunnel boat; 19' Monark; 17' Boston Whaler	Varies Weekly intervals (annually)	Varies with project	100' bag seine; benthic sled with net; 600' x 8' trammel net; lobster & crab traps	bongo array	Systematic, random (stratified), grid basis; long-term station selection, short-term special studies	As per Florida Marine Fisheries Commission	Mainly applies to implementation of research phases on current species or topics with additional personnel and increased funding

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	Snappers; groupers; triggerfish	Subadults-adults	NE Gulf of Mexico	Internal	23' ARGONAUT	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)	None	None
Florida Sea Grant Gainesville	Oysters; spiny lobster; swordfish; tilefish; snowy grouper; shark; clams; shrimp; scallops; golden crabs; snook	All stages	FL waters	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; ORFGON 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
ALABAMA												
Univ. So. Alabama Mobile	All finfish	Eggs; larvae	Mobile Bay; nearshore waters	Internal; territorial	40' DEBORAH "B"	Biweekly, April-October	200/yr		Meter net .505-mm mesh demersal, & neuston	Systematic, grid basis, long-term station selection	Strongly oriented toward sciaenid eggs and larvae	None
Marine Environmental Sciences Consortium (Dauphin Is. Sea Lab & U. Alabama)	Spotted seatrout; white sand trout; croaker; red drum	All stages	MS Sound; Mobile Bay; Perdido Bay	Estuarine	40' DEBORAH "B"; 14' skiff; 23' outboard	At least monthly, April 85 through March 86	Monthly at 4 sites & supplemental	Fyke net; drop net; bag seine	.505-mm mesh beam trawl	Target areas: grass beds	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; FCZ; 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

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
MISSISSIPPI												
Univ. So. Mississippi Hattiesburg	Freshwater prawn; all estuarine finfish; centrarchids	All stages	MS estuarine; northern Gulf; Biloxi Bay	Estuarine; territorial	Various small skiffs (outboard)	Varies	Biweekly to monthly	Standard basic equipment	Standard basic equipment	Short-term special studies	Increase development of a marine science program	None
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	Larvae-adults	MS territorial sea; offshore to 300 fm	Internal; territorial; (FCZ)	96' TOMMY MUNRO; (5) 20' skiffs; 35' HERMES; 40' NEREUS;	Semimonthly at 2-wk intervals	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	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	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; FCZ; 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
McNeese St. University Lake Charles	Plankton; nekton; benthic	All stages	Calcasieu estuary	Estuarine;	Small boats	250/yr	Benthic; nekton; phytoplankton; zooplankton	15-m balloon otter trawl, 5-m flat otter trawl	3-1 Van Dorn bottle; 67-cc bongo array; .333-mm & .505-mm mesh nitex nets; Ring net 1.0 m with .353 mesh	Long-term station selection	Scale down sampling activities from monthly to quarterly;	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

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												
Louisiana St. University Baton Rouge	Red drum	Juveniles	Saltwater impoundment near Grand Isle	Estuarine	None	10	more than 200/yr	Hook-and-line	None	Short-term, random at fixed station	Short-term special study to be applied to long-term tagging studies	None
	Red drum	Adults	Nearshore Gulf of Mexico off eastern LA	Coastal	Purse-seine vessel	30	Varies	Purse-seine	Bongo nets	Sample in areas of commercial activity	Two additional years	None
	All fish and macroinvertebrate assemblages	All stages	Lower Calcasieu River	Estuarine	Skiff	Varies	Varies	Nets, dredges	None	Stratified, short-term station selection	Short-term special study	None
	Shad; gar; catfish; sunfish; herring	Adults	Lake Charles	Estuarine	Skiff	10	5	Trammel nets; gill nets; otter trawls; trotlines; minnow traps; electro-shockers	None	Short-term random	Short-term special study	None
	Gulf menhaden	Juveniles	Fourleague Bay	Esutarine	Skiff	Varies	Varies	Otter trawls	Bongo nets	Stratified, short-term station selection	Short-term special study	None
	King mackerel	Adults	Gulf of Mexico	Gulf-wide	Varies	Varies	Varies	Trolling nets; hook-and-line	None	Areas of commercial and recreational activity	Expand sampling activity to obtain specimens from all areas of Gulf and South Atlantic, including Cuba, at least once a month	None
	Striped mullet	Adults	Lake Borgne	Estuarine	Lafitte skiff	14	84	Gill nets, different mesh sizes	None	Stratified random short-term station selection	Short-term special study	None
	Drums; seatrouts; croaker; spot	Eggs; larvae	Western LA continental shelf	Coastal	Ocean-going SEAMAP vessels	150	185	None	Modified bongo net	Stratified, short-term station selection	Short-term special study	None
	Red drum; carangids; clupeids; scombrids	Larvae	Gulf of Mexico	Gulf-wide	Ocean-going SEAMAP vessels	Varies	Varies	None	Bongo array	Partially randomized stations Gulf-wide	Next want to look at MS River Delta plume effects on larva recruitment and transport	None
	Largemouth bass	Juveniles; adults	Lake Penchant	Freshwater lake & marsh	21' crew boat	18	160 sets	Gill net; pull seine	None	Stratified, random, short-term station selection	Anticipate expanded life history studies to characterize marsh bass survival in saline environments	None
	Butterfish; squid	Juveniles; adults	Northern Gulf of Mexico	Gulf-wide	Various ocean-going vessels	Varies	Varies	Modified otter trawl	Bongo nets; neuston nets	Fixed short-term station selection along partially randomized lat./long. transects	Exploratory short-term study-sampling to be continued by NMFS and SEAMAP	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												
	Stone crabs	Adults	Barataria Bay	Coastal	Chartered commercial fishing boat	10	2,193	Modified crab pots	None	Stratified random short-term, fixed station selection	Exploratory short-term study	None
	Yellow-edge groupers; red snapper; golden tile-fish	Adults	Offshore LA out to 200 fm	Coastal	58' commer-cial long-line vessel	25	Varies	Bottom longline	None	Sampled in areas of commercial activity	Exploratory short-term study; conclusion of study begun two years ago	None
Louisiana Universities Marine Consortium Cocodrie	Zooplankton; benthos	All stages	Terrebonne and Tim-balier Bays; Inner Cont. Shelf	Internal; territorial	110' PELICAN; 44' R.J. RUSSELL; small out-boards; 19-m, 32-m vessels	Varies	Varies	5-m otter trawl	.333-mm & .505-mm mesh bongo nets	Fixed station transects	None	None
TEXAS												
Univ. of TX, Austin Marine Science Institute, Port Aransas	Shelf & bay species	All stages	Internal; territorial waters	Internal; territorial; (FCZ)	80' 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 ex-pansion 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 Sta-tion and Galveston	All macro-crustaceans and finfish	All stages	Bryan Mound, Freeport, TX; West Hack-berry, Cam-eron, LA	Internal; territorial; (FCZ)	71' EXCEL-LENCE II	40/yr	Monthly samples	34' & 50' semi-balloon trawls	Bongo net with .333-mm & .505-mm mesh	Long-term station selection; short-term special studies; systematic, grid basis	None	None
Pan American University, Coastal Stud-ies Lab, So. Padre Island	All finfish of Laguna Madre, benthic macrofauna of Laguna Madre	All stages	Corpus Christi to Brownsville	Laguna Madre; Gulf near-shore	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

✓ = received

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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. 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 SEAMAP Marine Directories: May 1983, March 1984, and March 1985. 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, January 1985; February 1986; Oct. 1986 Compilations of information obtained from the 1982 and 1983 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. 1984

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) 1986 SEAMAP Marine Directory, March 1986

10) 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.

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).