1987 SEAMAP

GULF OF MEXICO

MARINE DIRECTORY

GULF STATES

MARINE FISHERIES COMMISSION

SEPTEMBER 1987

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1987 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

Ocean Springs, Mississippi 39564

SEPTEMBER 1987

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-seventh Annual Report of the Gulf States Marine Fisheries Commission, updates information contained in the 1983, 1984, 1985, and 1986 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 1986 Directory were contacted in March 1987 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:

Tom Van Devender 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 FIS | | | ANNUAL EFFORT FISHERY-INDEPEN BY ACTIVI | IDENT SAMPLING | TYPES OF | GEAR | | . • | |
|---|--|---------------------------------|--|--|--|---|---|---|--|---|--|--|
| AGENCY TARGET | 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 PRESENTL UNABLE TO SAMPL |
| OAA MFS/SEFC Mississippi Labs, Pascagoula (MS) | Groundfish (shrimp, spot, croaker, cat- fish, trout) | Subadults- adults | Gulf of Mexico South Atlantic | Territorial; open ocean (EEZ) | 172 OREGON | 102/yr toward target spec- ies; 102/yr total sea days | 600/yr trawl sta- tions, 180 plankton/yr 180 neuston/ yr | Standard 40' semibal- loon trawl; High-opening fish trawl | Bongo array with .333-mm mesh nets; 1 x 2-m neuston net with .947mm mesh | Random (stratified) 5-100 fm | None | None |
| | Reef fish (snap- er, grouper, tilefish) | Adults | Gulf of Mexico; South Atlantic; Caribbean | Territorial; open ocean (EEZ) | OREGON II; 127' CHAP- MAN | 87/yr toward target species | 150 longline sets/yr | Longline; traps | None | Random (stratified) 20-250 fm | None | None |
| | Latent resources (coastal her- ring, squid, butterfish) | Subadults- adults | Gulf of Mexico | Territorial; open ocean (EEZ) | CHAPMAN | 145/yr toward target species 160/yr total sea days | 400/yr trawl stations | High-open- ing & mid- water bottom trawls | None | Transects | Expansion | None |
| | Red drum | Subadults- adults | Gulf of Mexico | Territorial; open ocean (EEZ) | Charter purse seines; | 60/yr | 20,000 tagged red drum | Purse seine | None | Target fish schools | None | None |
| | | | | | Airplane | 100/yr | None | None | None | Transects | None | None |
| | Mackere1 | Subadults- adults | Gulf of Mexico | Territorial; open ocean (EEZ) | Airplane | 24/yr | Unknown | None | None | Transects | None | None |
| OAA MFS/SEFC Miami Lab (FL) | All recreation- ally & commer- cially impor- tant 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 FL moni- toring | Billfishes; tunas |
| DAA MFS/SEFC Beaufort ab (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 representa- tive of general contaminant levels at each sampling site (NOAA Status & Trends project; organic contamin- ants, trace metals, histopathology) | Project funded on yearly basis | None |
| OAA MFS/SEFC Galveston Lab (TX) | Bottomfish; penaeid shrimp; lane snapper; red snapper | Postlarvae- adults | Gulf of Mexico | Internal, EEZ | 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 estuar- ine ecology | None | None |
| | Sea turtles | Juveniles- adults | Gulf of Mexico Oil & gas platforms | Gulf of Mexico Oil & gas platforms | | | | | | | None | None |
| DAA NFS/SEFC Panama City ab (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 | 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; oceanic discontinuities | Continuation of SEAMAP; | None |

TABLE 1. (CONTINUED)

| | | | TYPES OF FIS | | | ANNUAL EFFORT FISHERY-INDEPEND BY ACTIVI | ENT SAMPLING | 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 | Varies | Varies with project | 16' flat otter trawl; traps; push 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 commercial- ly & recrea- ationally im- portant species | | 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 | Yaries | None | Systematic, random, short-term special studies | None | None |
| USDI MMS/GOM Regional OCS Office, Metairie, LA | | | | | | | | | | | | |
| Physical oceanogra- phy: Field Measurements Program | None | None | Gulf-wide | Shelf & slope | GYRE; SUNCOASTER; Drifting (satellite- tracked) buoys; ships of opportunity (SOOPS) | buoy days/yr; SOOPS: 70 tran- sects of Gulf | Hydrographic records | None | None | Fixed location cur- rent meter moorings; selected hydrographic station transects; random locators for buoys only; repeating transects for SOOPs | | None |
| | | | | | | | | | | | | |
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TABLE 2. SUMMARY OF INFORMATION PROVIDED BY STATE AGENCIES

| | | | TYPES OF FIS INDEPENDENT S | | | ANNUAL EFFORT FISHERY-INDEPEND BY ACTIV | DENT SAMPLING | TYPES OF | GEAR | | | |
|---|--|----------------------------------|--|---|---|---|--|--|---|--|---|---|
| AGENCY | TARGET SPECIES | LIFE STAGES SAMPLEO | 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 PRESENTL UNABLE TO SAMPL |
| Texas Parks Wildlife Dept. | All penaeid shrimp; all other species | Juveniles- adults | TX internal coastal waters; territorial sea | Internal; territorial | 30' inboard & 18' out- board skiffs; 40'-45' inboards | 365/yr | 1080/yr 1680/yr 960/yr 756/yr 5232/yr | 60' bag seines (shoreline); 20' trawl (bay, open water); 20' trawl (Gulf waters); gill nets for adult finfish (along shore); oyster dredge | None | Random, grid basis | None | Adult finfish in open Gulf water |
| Louisiana Dept. of Wildlife & Fisheries | ept. of shrimp; ildlife & groundfish | Larvae- adults | LA inshore waters; territorial seas; EEZ | Internal; territorial | 13-17' out- boards for 6' trawl; 30' in- boards 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 (.333363-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 impo tant commercial recreational cat |
| | | | | | 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 territo- rial sea | <pre>Internal; territorial; (EEZ)</pre> | 32' Laffitte; 19' Cobia; 65' oyster dredge boat | 50/yr; 10/yr; 50-60/yr | Varies; oyster 6/mo; shrimp 10- 15/mo | 16' trawl; oyster tongs and dredge; gill nets | None | Long-term station selection, varies with opening and closing of areas | Increase tagging activities | Juvenile red dru cobia |
| Alabama Dept. of Conserva- tion & Nat. Resources | All penaeid shrimp; southern flounder; Gulf menhaden; spot; croaker; red- drum; seatrout; blue crab | Larvae- adults | AL marshes to territo- rial sea | Internal; territorial | 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 | Long-term station selection | Increase effort to determine year-class strength of target species | Increase level o 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; EEZ | 37' BONNIE "E"; 27' Sea Star twin i/o; 24' T-craft inboard; 2 small out- boards used for inshore sampling; 2 mullet skiffs; 34' Allmand; 24' tunnel boat; 19' Monark; 3-17' Boston Whalers 85' HERNAN | intervals | Varies with project | 35' trawl 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 or research phases on current species or topic with additional personnel and increased fundin |

TABLE 3. SUMMARY OF INFORMATION PROVIDED BY UNIVERSITIES

| | | | TYPES OF FIS INDEPENDENT S | | | ANNUAL EFFORT FISHERY-INDEPEND BY ACTIVI | ENT SAMPLING | TYPES OF | GEAR | • | | |
|---|--|--|---|---|--|---|--|--|---|--|--|--|
| UNIVERSITY | TARGET SPECIES | LIFE STAGES SAMPLEO | 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 in- fauna; epibenthic fishes & in- vertebrates | Larvae- adults | NE Gulf of Mexico | Internal; territorial | (3) 55-hp 25' skiffs; outboard | 48/ут | 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 environ- mental experi- mentation | Areas: Apalachi- cola 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 |
| Torida Gea Grant Gainesville | Oysters; spiny lobster; sword- fish; tilefish; snowy grouper; shark; clams; shrimp; scal- lops; 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 Ocean- ography St. Petersbury | 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 | adults, juveniles; | Offshore & nearshore, eastern Gulf of Mexico | Offshore: continental slope nearshore: internal, territorial | JOHNSON; OREGON II; | 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 tran- sect line | | Offshore & Mearshore: intensive sampling during mating season | None | None |
| | | | | | | | ALABAMA | | | | | |
| Marine Environmental Sciences Consortium (Dauphin Is. Sea Lab & U. Alabama) | Spotted sea- trout; 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' TOMHY MUNRO; skiffs; industry | Varies with project | Varies with project | Various types of crab pots; tonging for oysters; clos- ed, recircu- lating sea- water system for crabs; opening/clos- ing 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 FISH INDEPENDENT SA | | | ANNUAL EFFORT FISHERY-INDEPEN BY ACTIV | DENT SAMPLING | 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 PRESENTL UNABLE TO SAMPL |
| | | | | | | М | (ISSISSIP) | PI | | | | |
| Univ. So. Mississippi Hattiesburg | Freshwater prawn; all estuarine finfish; centrarchids | All stages | MS estuarine; northern Gulf; Biloxi Bay | | Various small skiffs (outboard) | Varies | Biweekly to monthly | Standard basic equip- ment | Standard basic equipment | Short-term special studies | Increase develop- ment 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; butter- fish; cutlass- fish; red drum; squid; golden Gulf crabs | Larvae- adults | MS territor- ial 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 moni- toring & assess- ment over the long term, with appropriate in- creases in inten- sity & 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; clos ed, recircu- lating sea- water system for crabs; opening/clos- ing ichthy. trawl | .333-mm mesh - nets); 60-cm bongo net | Varies with project | None | None |
| | | | | - | | | LOUISIAN | A | | | | |
| Univ. New Orleans New Orleans | Blue crab; oysters; marine commercial finfish | All stages | Lake Pont- chartrain; Lake Borgne | Estuarine | | Yaries | | | | Short-term special studies | Analyze commer- cial fish pop- ulations by use of electro- phoresis; studies of oyster nutri- tion and para- sitology | None |
| McNeese St. University Lake Charles | Plankton; nekton; benthic | All stages | Calcasieu estuary | Estuarine | Small boats | Varies with project | Varies with project | 15-m balloon otter trawl, | 3-1 Yan Dorn bottle; 67-cc bongo array; .333-mm å .505-mm mesh nitex nets; Ring net 1.0 m with .353 mesh | Short-term special studies | 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 |

TABLE 3. (CONTINUED)

| | | and the second s | TYPES OF FIS INDEPENDENT S | | | ANNUAL EFFORT FISHERY-INDEPEN BY ACTIV | DENT SAMPLING | TYPES OF | F GEAR | | | |
|---|---|--|--|--------------------------------------|-----------------------------------|--|----------------------|---|-----------------------------|---|---|--|
| JNIVERSITY | 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 |
| | | | | | | LOUIS | IANA | | : | | | |
| ouisiana St. University Baton Rouge | Red drum | Juveniles | Saltwater impound- ment near Grand Isle | Estuarine | Mone | 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 macroinver- tebrate assemblages | All stages | Lower Cal- casieu 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 |
| | King mackerel | Adults | Gulf of Mexico | Gulf-wide | Varies | Varies | Varies | Trolling nets; hook- and-line | None | Areas of commer- cial and recrea- tional 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 lar- va recruitment and transport | 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 FISH INDEPENDENT SA | | | ANNUAL EFFORT FISHERY-INDEPEN BY ACTIV | DENT SAMPLING | TYPES 0 | F GEAR | | | |
|--|---|------------------------|--|---|---|--|--|---|---|---|--|--|
| INIVERSITY | 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 |
| | | | | | | LOUIS | IANA | | | | | |
| | 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 |
| | Zooplankton; benthos; bottomfish | All stages | Terrebonne and Tim- balier Bays; Inner Cont. Shelf | Internal; territorial | 110' PELICAN; 58' R/V ACADIANA; small out- boards; 19-m, 32-m vessels | Varies | Yaries | 5-m otter trawl | .333-mm & .505-mm mesh bongo nets | Fixed station transects | None | None |
| | | | | | | TEX | AS | | | | | |
| Univ. of TX, Austin Marine Science Institute, Port Aransas | Shelf & bay species | All stages | Internal; territorial waters | Internal; territorial; (EEZ) | 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; (EEZ) | 71' EXCEL- LENCE II | 40/yr | Monthly samples | 34' & 50' semi- balloon trawis | 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

FEDERAL AGENCIES

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

Dr. Richard Berry, Director 75 Virginia Beach Drive Miami, Florida 33149 (305) 361-4284

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

Mississippi Laboratories Dr. Andrew J. Kemmerer Pascagoula Facility P.O. Drawer 1207 Pascagoula, MS 39568 (601) 762-4591

National Space Technology Laboratories NSTL Station, MS 39529 (601) 688-3650

Economic and Statistics Office Dr. Albert Jones 75 Virginia Beach Dr. Miami, FL 33149 (305) 361-4259 Galveston Laboratory Dr. Edward Klima 4700 Avenue "U" Galveston, TX 77550 (713) 766-3500

Panama City Laboratory Mr. Eugene Nakamura 3500 Delwood Beach Rd. Panama City, FL 32407 (904) 234-6541

Beaufort Laboratory Dr. Ford Cross Beaufort, NC 28516 (919) 728-4595

FEDERAL AGENCIES

U.S. DEPARTMENT OF INTERIOR

Minerals Management Service Mr. H.P. Sieverding 1201 Elmwood Park Blvd. New Orleans, LA 70123-2394 (504) 736-2755

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

Dr. Roy Perez c/o Corpus Christi State University P.O. 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) 385-0380

Dr. Susan Rees, PD-EC
U.S. Army Corps of Engineers
P.O. Box 2288
Mobile, AL 36628
(205) 690-2511

GULF AND SOUTH ATLANTIC FISHERIES DEVELOPMENT FOUNDATION, INC.

Mr. Tom Murray, Executive Director

5401 W. Kennedy Blvd.

Suite 571

Tampa, FL 33609

(813) 870-3390

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
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 15570

Baton Rouge, LA 70895

(504) 342-5860

MISSISSIPPI DEPARTMENT OF WILDLIFE CONSERVATION
Bureau of Marine Resources
Dr. Frederick Deegen
P.O. Drawer 959
Long Beach, MS 39560
(601) 864-4602

TEXAS PARKS AND WILDLIFE DEPARTMENT
Dr. Gary Matlock
4200 Smith School Road
Austin, TX 78744
(512) 479-4862

UNIVERSITIES

SEA GRANT PROGRAMS

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

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

Texas Sea Grant Office Mr. Tom Bright, Director Mr. Willis Clark, Assoc. 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 Mr. Dean Milliken 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 Miami
Dr. Frank Williams
Rosensteil School of Marine
and Atmospheric Sciences
4600 Rickenbacker Causeway
Miami, FL 33149
(305) 284-2211

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

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

LOUISIANA UNIVERSITY PROGRAMS

Louisiana State University Dr. Gilbert Bane 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) 437-5663

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. William Reese
Department of Biological Sciences
Box 42451
Lafayette, LA 70504
(318) 231-6748

MISSISSIPPI UNIVERSITY PROGRAMS

Gulf Coast Research Laboratory Dr. Thomas McIlwain East Beach Drive Ocean Springs, MS 39564 (601) 875-2244 University of Southern Mississippi Dr. Steve Ross Department of Biological Sciences Hattiesburg, MS 29401 (601) 266-4928

UNIVERSITIES

TEXAS UNIVERSITY PROGRAMS

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

Texas A & I University Dr. Allan H. Chaney Department of Biology Campus Box 158 Kingsville, TX 78363 (512) 595-3803 Texas A & M University
Dr. Andre M. Landry
Department of Marine Biology
Mitchell Campus
P.O. Box 1675
Galveston, TX 77553
(409) 740-4400

University of Houston Dr. Al Loedlich c/o NOAA/NMFS 4700 Avenue "U" Galveston, TX 77550 (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

- 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 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) <u>SEAMAP Information System Manual</u>, 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) <u>SEAMAP-Gulf Operations Plan</u>, 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) <u>SEAMAP-Gulf Operations Plan Executive Summary</u>, 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. 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.
- 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).