

1989
SEAMAP
GULF OF MEXICO

MARINE
DIRECTORY

GULF STATES MARINE
FISHERIES COMMISSION

1989 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

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 Thirty-ninth Annual Report of the Gulf States Marine Fisheries Commission, updates information contained in the 1983, 1984, 1985, 1986, 1987 and 1988 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 1989 Directory were contacted in April 1989 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

| AGENCY | TARGET SPECIES | LIFE STAGES SAMPLED | TYPES OF FISHERY-INDEPENDENT SAMPLING | | ANNUAL EFFORT DEVOTED TO FISHERY-INDEPENDENT SAMPLING BY ACTIVITY IN: | | TYPES OF GEAR | | SAMPLE STRATEGY FOR DATA COLLECTION | ANTICIPATED CHANGES IN DIRECTION OF FISHERY-INDEPEND. ACTIVITIES OVER NEXT 5 YEARS | HIGH PRIORITY SPECIES PRESENTLY UNABLE TO SAMPLE | |
|--|--|---------------------------|---|---|---|---|---|---|--|--|---|-------------------|
| | | | AREA SAMPLED | GEOGRAPHIC AREAS OF IMPORTANCE | TYPES OF PLATFORMS | NUMBER OF DAYS | NUMBER OF SAMPLES | FISHING, TRAWLING | | | | PLANKTON |
| 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' semiballoon 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 (snapper, 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 |
| 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 | 96 | Otter trawls | | Random | 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 terrain 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 discontinuities | 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: | | | | | | | | | | | |
| Physical Oceanography | None | None | Gulf-wide | Shelf & slope | R/V PELICAN; drift buoys; ships-of-oppor. | 100's | -- | Hydrographic records | | Moorings; X-sects | Study ends in 1988 | None |
| Sea Turtle Study | All turtles | Adult | LA | Continental shelf | Aerial over flights; contracted fishing vessel; R/V CHAPMAN | 66 | -- | Photos; videos | | Stratified X-sects | Sea turtle study conducted under Interagency Agreement with NMFS | None |
| MS/AL Pinnacle Trend Study | N/A | N/A | MS/AL outer shelf | Shelf to 200 m | R/V TOMMY MUNRO | 14/yr | Varies | N/A | N/A | Side-scan and photography cruises | Project to end in 1990 | N/A |
| Flower Garden Monitoring Study | Corals | Adult | East and west Flower Garden Banks | Reef | M/V FLING | 18/yr | Varies | N/A | N/A | Photographs, video tape and diver surveys | Project to end in 1991 | N/A |
| LA/TX Shelf Program | N/A | N/A | LA/TX continental slope & shelf | Continental shelf | Moored and drifting buoys; Ships and aircraft | N/A | N/A | N/A | N/A | Hydrographic and current measurements | Continued indefinitely | N/A |

TABLE 2. SUMMARY OF INFORMATION PROVIDED BY STATE AGENCIES

| AGENCY | TARGET SPECIES | LIFE STAGES SAMPLED | TYPES OF FISHERY-INDEPENDENT SAMPLING | | TYPES OF PLATFORMS | ANNUAL EFFORT DEVOTED TO FISHERY-INDEPENDENT SAMPLING BY ACTIVITY IN: | | TYPES OF GEAR | | SAMPLE STRATEGY FOR DATA COLLECTION | ANTICIPATED CHANGES IN DIRECTION OF FISHERY-INDEPEND. ACTIVITIES OVER NEXT 5 YEARS | HIGH PRIORITY SPECIES PRESENTLY UNABLE TO SAMPLE |
|--|---|----------------------------|--|--------------------------------|--|---|---|---|---|--|--|--|
| | | | AREA SAMPLED | GEOGRAPHIC AREAS OF IMPORTANCE | | NUMBER OF DAYS | NUMBER OF SAMPLES | FISHING, TRAWLING | PLANKTON | | | |
| 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 | 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 larval in nearshore water. | 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 | 167/yr state 92/yr LOOP | Plankton, 528/yr; Benthos, 56/yr; Trawls: 800/yr 1288/yr 494/yr 72/yr 12/yr 96/yr | 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 | |
| Mississippi Bureau of Marine Resources | All penaeid shrimp; speckled trout; redfish; mullet; black drum; flounder; snapper; grouper; white trout; so. kingfish; menhaden; blue crab; cobia; Spanish mackerel; king mackerel | Juveniles- adults | MS territorial sea | Internal; territorial; (EEZ) | 32' Laffitte; 19' Proline; 65' oyster dredge boat; 24' Boston Whaler; 18' Boston Whaler | 50/yr; 10/yr; 50-60/yr | Varies; oyster 6/mo; shrimp 10-15/mo; varies | 16' trawl; oyster tongs and dredge; gill nets | None | Long-term station selection, varies with opening and closing of areas | Increase tagging activities | |
| | | | | | | | 250/yr 1500/yr 100/yr 576/yr 135/yr 144/yr | 50' bag seine; gill net; trammel net oyster: butlerplate sq. meter dredge | | | | |

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 |
| 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 | 1584/yr 1680/yr 960/yr 756/yr 5232/yr 504/yr | 16' 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 in-fauna; 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 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 Institute 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, sub-adults | 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 |
| 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 management 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 |

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; butterflyfish; 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 |
| 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 |

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 & 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 | Varies | Varies | Varies | Varies | | Sample in areas of historic fishing activity | Two additional years | None |
| | King mackerel; Spanish mackerel; black drum; tunas; snapper; grouper; red drum; greater amberjack; sheepshead; spotted seatrout | Juveniles; adults | Louisiana | Estuarine; coastal | Varies | Varies | Varies | Varies | None | Areas of commercial and recreational activity | On-going | Sharks |
| | striped mullet | Juveniles; adults | LA coastal waters | | None | Varies | Approximately 1000/yr | Seine, gill and trammel nets | None | Samples received from LDWF finfish monitoring programs | Program will continue through end 1990 | N/A |
| | 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 |
| | Southern flounder; cobia; tarpon; black drum; greater amberjack; bluefish | Juveniles; adults | Louisiana | Estuarine; coastal | Varies | 40-60 | 50-1000 | Hook & line; spear gun | None | Sample fish landed in rodeos and charter boats | Long-term program | Most jacks; snappers and groupers |
| | sea turtles -- Kemps, loggerhead, green, hawksbill & leatherback | Juveniles; adults | Southeastern LA coast & Chandeleur Islands | Gulf-wide | None | Varies | Varies | None | None | Beach surveys and interviews in areas of known or reported occurrences | None | None |
| 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)

| | | | 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 |
| 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 macro-crustaceans 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 |
| Pan American University, Coastal Studies 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
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TEXAS UNIVERSITY PROGRAMS

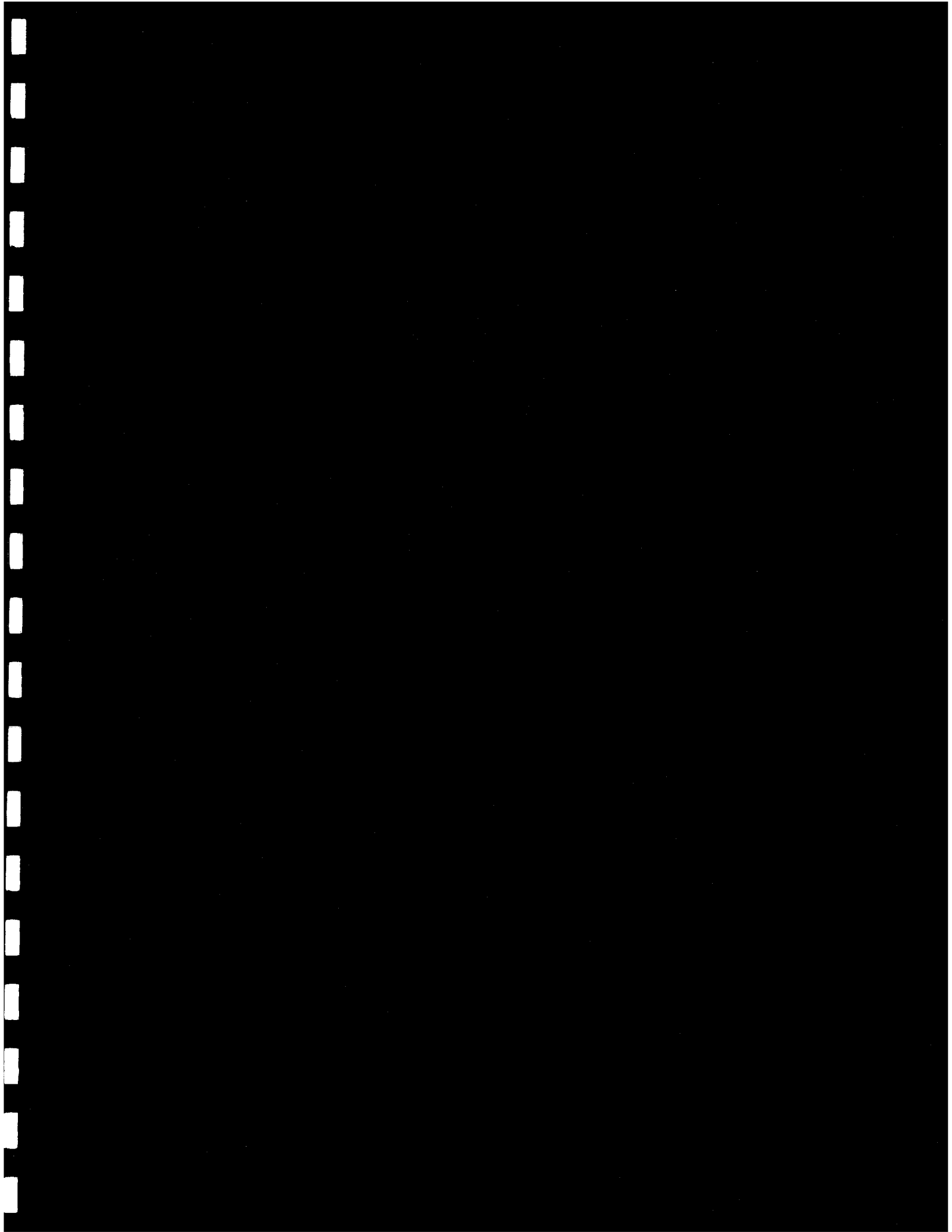
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SEAMAP DOCUMENTS LIST, 1982 - CURRENT

- 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 SEAMAP Marine Directories: May 1983, March 1984, March 1985, March 1986, September 1987, July 1988 and August 1989. 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, January 1985; February 1986; October 1986; June 1988. 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.

SEAMAP DOCUMENTS LIST, 1982 - CURRENT

- 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.

- 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.
Summaries of activities and proposed events for the SEAMAP-Gulf and SEAMAP-South Atlantic 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 document 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. 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).