2004 SEAMAP-GULF OF MEXICO

MARINE DIRECTORY

Fishery-Independent Survey Activities

SOUTHEAST AREA MONITORING AND ASSESSMENT PROGRAM

James Hanifen, Chairman

GULF STATES MARINE FISHERIES COMMISSION

Post Office Box 726

Ocean Springs, Mississippi 39566-0726

www.gsmfc.org

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APPENDIX A

MARINE AGENCY CONTACTS

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, there are three components to the program: the SEAMAP-Gulf, SEAMAP-South Atlantic and SEAMAP-Caribbean (Puerto Rico and the U.S. Virgin Islands).

This Marine Directory updates information contained in past SEAMAP Marine Directories, and describes survey activities (ongoing programs, vessel schedules, etc.) throughout the Gulf of Mexico. The program is managed through the Gulf States Marine Fisheries Commission's office.

Agencies responding to the 2004 Directory were contacted in February 2004 and were requested to provide current information or projected changes in their survey programs. Tables 1, 2, 3 and 4 are condensed summaries of information submitted by responding agencies and organizations, indicated as either Federal, State, university activities, or non-profit organizations.

Representatives of agencies contributing information to the current and 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 SEAMAP for inclusion in future listings. The Directory will be updated each year, with copies supplied to participating organizations and other interested people.

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

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FEDERAL AGENCIES

U.S. DEPARTMENT OF COMMERCE

NOAA/National Marine Fisheries Service Southeast Fisheries Science Center Dr. Nancy Thompson, Director 75 Virginia Beach Drive Miami, Florida 33149 (305) 361-4285, (305) 361-4219 FAX nancy.thompson@noaa.gov

Sustainable Fisheries Division

Dr. Gerry Scott 75 Virginia Beach Drive Miamí, FL 33149 (305) 361-4225, (305) 361-4515 FAX Gerry.Scott@noaa.gov

Protected Resources/Biodiversity Division

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Galveston Laboratory

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Mississippi Laboratories

Dr. Scott Nichols, Director Pascagoula Facility P.O. Drawer 1207 Pascagoula, MS 39568-1207 (228) 762-4591, (228) 769-9200 FAX scott.nichols@noaa.gov

Stennis Space Center SSC, MS 39529 (228) 688-3650, (228) 688-1151 FAX

Panama City Laboratory

Dr. Pete Sheridan, Laboratory Director 3500 Delwood Beach Road Panama City, FL 32408 (850) 234-6541 ext. 203, (850) 235-3559 FAX <u>pete.sheridan@noaa.gov</u> www.sefscpanamalab.noaa.gov

Beaufort Laboratory

Dr. David Johnson, Director 101 Pivers Island Road Beaufort, NC 28516 (252) 728-8746, (252) 728-8784 FAX david.johnson@noaa.gov

U.S. DEPARTMENT OF INTERIOR

Minerals Management Service

Gulf of Mexico OCS Region Dr. Pasquale F. Roscigno Mail Stop 5430 1201 Elmwood Park Boulevard New Orleans, LA 70123-2394 (504) 736-2752 Pasquale.Roscigno@mms.gov

Dr. Alexis Lugo-Fernandez LA/TX Shelf Physical Oceanography (504) 736-2593, (504) 736-2901FAX alexis.lugo.fernandez@nmfs.gov

U.S. Fish and Wildlife Service, Ecological Services

Mr. Allan M. Strand c/o TAMU Corpus Christi State University Campus Box 338 6300 Ocean Drive Corpus Christi, TX 78412 (361) 994-9005, (361) 994-8262 FAX Allan_strand@fws.gov

U.S. Geological Survey, Biological Resources

Dr. Robert E. Stewart, Jr. NBS Southern Regional Office 700 Cajundome Boulevard Lafayette, LA 70506-3152 (337) 266-8501, (337) 266-8610 FAX <u>bob_stewart@usgs.gov</u> www.nwrc.gov/library.htm

U.S. DEPARTMENT OF DEFENSE

Dr. Susan Rees, PD-EC U.S. Army Corps of Engineers Department of Defense P.O. Box 2288 Mobile, AL 36628 (251) 694-4141, (251) 690-2721 FAX susan.i.rees@sam.usace.army.mil

NON-PROFIT ORGANIZATION

GULF AND SOUTH ATLANTIC FISHERIES FOUNDATION, INC.

Ms. Judy Jamison, Executive Director 5401 W. Kennedy Boulevard Suite 997 Tampa, FL 33609 (813) 286-8390, (813) 286-8261 FAX gulfsouthfdn@worldnet.att.net

THE CONSERVANCY OF SOUTHWEST FLORIDA IN NAPLES

Dr. David Ceilley Director, Environmental Science The Conservancy of Southwest Florida 1450 Merrihue Drive Naples, FL 34102 (941) 403-4232, (941) 262-5872 FAX dceilley@conservancy.org

SANIBEL-CAPTIVA CONSERVATION FOUNDATION

Dr. Stephen A. Bortone Director, Marine Laboratory 900A Tarpon Bay Road Sanibel, FL 33957 (239) 395-3115, (239) 395-4616 FAX sbortone@sccf.org

STATE AGENCIES

ALABAMA DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES

Mr. Mark Van Hoose P.O. Box 189 Dauphin Island, AL 36528 (251) 861-2882, (251) 861-8741 FAX vanhoose@gulftel.com

FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION MARINE RESEARCH INSTITUTE

Dr. Mark Leiby 100 8th Avenue, S.E. St. Petersburg, FL 33701-5095 (727) 896-8626, (727) 823-0166 FAX mark.leiby@fwc.state.fl.us

LOUISIANA DEPARTMENT OF WILDLIFE AND FISHERIES

Mr. James Hanifen P.O. Box 98000 Baton Rouge, LA 70898-9000 (225) 765-2379, (225) 765-2624 FAX hanifen j@wlf.state.la.us

MISSISSIPPI DEPARTMENT OF MARINE RESOURCES

Mr. Tom Van Devender 1141 Bayview, Suite 101 Biloxi, MS 39530 (228) 374-5000, (228) 374-5005 FAX tom.vandevender@dmr.state.ms.us

TEXAS PARKS AND WILDLIFE DEPARTMENT

Mr. Paul Choucair Texas Parks and Wildlife Department Coastal Fisheries Division 702 Navigation Circle Rockport, TX 78382 (361) 729-2328, (361) 729-1437 FAX paul.choucair@tpwd.state.tx.us

UNIVERSITIES

SEA GRANT PROGRAMS

Florida Sea Grant Office

Dr. James Cato, Director Dr. Bill Seaman, Associate Director University of Florida Building 803, Room 106 P.O. Box 110400 Gainesville, FL 32611-0400 (352) 392-5870, (352) 392-5113 FAX jcato@ifas.ufl.edu

Louisiana Sea Grant Office

Dr. Jack Van Lopik, Executive Director Mr. Ronald E. Becker, Associate Executive Director Louisiana State University Sea Grant Building Baton Rouge, LA 70803-7507 (225) 578-6710, (225) 578-6331 FAX jvl@lsu.edu www.laseagrant.org

Texas A&M University Sea Grant Program

Dr. Robert R. Stickney, Director 1716 Briarcrest, Suite 702 Bryan, TX 77802-2700 (409) 845-1245, (409) 845-7525 FAX stickney@tamu.edu

Mississippi-Alabama Sea Grant Consortium

Dr. LaDon Swann, Director P.O. Box 7000 Ocean Springs, MS 39566-7000 (228) 818-8842, (228) 818-8841 swanndl@auburn.edu www.masgc.org

ALABAMA UNIVERSITY PROGRAMS

Dauphin Island Sea Lab

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University of Alabama

Dr. William W. Schroeder Marine Sciences Program 101 Bienville Boulevard Dauphin Island, AL 36528 (251) 861-7528, (251) 861-7540 FAX wschroeder@disl.org

Talladega College

Dr. Arthur Bacon Biology Department Talladega, AL 35160 (205) 362-5152

University of South Alabama

Dr. Robert Shipp, Chair Department of Marine Sciences Life Sciences Building Room 25 Mobile, AL 36688-0002 (251) 460-7136, (251) 460-7357 FAX rshipp@jaguar1.usouthal.edu

FLORIDA UNIVERSITY PROGRAMS

Florida Institute of Oceanography

Dr. John C. Ogden 830 First St., South St. Petersburg, FL 33701 (727) 553-1100, (727) 553-1109 FAX jogden@seas.marine.usf.edu www.marine.usf.edu/FIO/

Florida State University

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

University of Florida

Dr. William J. Lindberg Dept. of Fisheries and Aquatic Sciences 7922 NW 71st Street Gainesville, FL 32653-3071 (352) 392-9617 ext. 239, (352) 846-1088 FAX wjlindberg@mail.ifas.ufl.edu

University of South Florida

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

University of Miami

Dr. Nelson M. Ehrhardt Rosenstiel School of Marine and Atmospheric Science 4600 Rickenbacker Causeway Miami, FL 33149 (305) 361-4741

University of West Florida

Dr. George Stewart Biology Department 11000 University Parkway Pensacola, FL 32514 (850) 474-2748, (850) 474-2749 FAX gstewart@uwf.edu

LOUISIANA UNIVERSITY PROGRAMS

Louisiana State University Dr. Richard F. Shaw Coastal Fisheries Institute, Center for Coastal Energy and Environmental Resources Baton Rouge, LA 70803 (225) 578-6455

Nicholls State University

Dr. Thomas M. Soniat Department of Biology Thibodaux, LA 70310 (985) 448-4865; 448-4927 FAX tom.soniat@Nicholls.edu

Louisiana Universities Marine Consortium (LUMCON)

Mr. Kerry St. Pe, Interim Administrator 8124 Highway 56 Chauvin, LA 70344 (985) 851-2800; 851-2874 FAX kstpe@lumcon.edu

University of Louisiana - Lafayette

Dr. Darryl Felder Department of Biology, Box 42451 Lafayette, LA 70504-2451 (337) 482-6748, (337) 482-5834 dlf4517@louisiana.edu

MISSISSIPPI UNIVERSITY PROGRAMS

The University of Southern Mississippi College of Marine Sciences Gulf Coast Research Laboratory Dr. Vernon L. Asper, Dean P.O. Box 7000 Ocean Springs, MS 39566-7000 (228) 872-4211, (228) 872-4279 FAX vernon.asper@usm.edu

Dr. William E. Hawkins, Director Gulf Coast Research Laboratory P.O. Box 7000 Ocean Springs, MS 39566-7000 (228) 872-4211, (228) 872-4279 FAX william.hawkins@usm.edu

TEXAS UNIVERSITY PROGRAMS

The University of Texas-Pan American

Dr. Don Hockaday, Acting Director Coastal Studies Laboratory 100 Marine Lab Drive South Padre Island, TX 78597 (956) 761-2644; (956) 761-2913 hockaday@panam.edu http://www.panam.edu/dept/csl/csl/litml

Texas A & M University at Galveston

Dr. André M. Landry, Jr. Department of Marine Biology Institute of Marine Life Sciences 4700 Avenue U, Building 303 Galveston, TX 77553 (409) 740-4423, (409) 740-4717 FAX

Texas A & M University - Kingsville

Dr. Steven A. Smith Department of Biology Campus Box 158 Kingsville, TX 78363 (361) 593-3504; 593-3800 FAX sa-smith@tamuk.edu

University of Houston

Dr. Al Loeblich Department of Biology Houston, TX 77204-5513 (713) 749-1011

The University of Texas at Austin

Dr. Wayne S. Gardner, Director Marine Science Institute 750 Channel View Drive Port Aransas, TX 78373-5015 (361) 749-6730, (361) 749-6777 FAX gardner@utmsi.utexas.edu

Texas A&M University at Corpus Christi

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| | | | TYPES OF FISHEI SAMI | RY-INDEPENDENT PLING | | ANNUAL EFFOI FISHERY-INDEPE BY ACT | RT DEVOTED TO NDENT SAMPLING IVITY IN: | TYPES OF GEAR | | | |
|------------------|--|----------------------------------|--------------------------------------|--|---|--|--|---|---|---|---|
| AGENCY | TARGET SPECIES | LIFE STAGES SAMPLED | AREA SAMPLED | GEOGRAPHIC AREAS OF IMPORTANCE | TYPES OF PLATFORMS | NUMBER OF DAYS | NUMBER OF STATIONS | TRAWLING , PLANKTON, TRAPS, ETC. | SAMPLE STRATEGY FOR DATA COLLECTION | STATUS OF FISHERY- INDEPENDENT SURVEYS OVER NEXT 5 YEARS | SPECIES PRESENTLY UNABLE TO SAMPLE |
| NOAA/NMFS/SEFSC | | | | | | | | | | | |
| Mississippi Labs | Bottomfish/ shrimp; all plankton species | Subadults-adults; eggs/larvae | Gulf of Mexico (Alabama to Texas) | Territorial | 172' OREGON II and 224' GORDON GUNTER | 121 sea days trawling; plankton in conjunction with trawl surveys | 720 trawl; 100 plankton and 530 environmentai | 40° semiballoon, 90° high opening bottom trawl, Bongo array w/ .333-mm mesh nets; 1x2-m neuston w/ 950-mm mesh nets | Trawling-random stratified 5-60 fm; plankton-systematic grid out to 100 fm | Continuation | Adult fish of many species (cobia, mullet, black drum, etc.) |
| | Reef fish (snapper, grouper) | Subadults-adults | Gulf of Mexico | Territorial | OREGON II GORDON GUNTER AND CARETTA | 101 sea days | 400 trap/video camera; 60 ROV drops; 50 long)ine sets; environmental | Traps/video camera; ROV; 1 mile bottom longline with 100 hooks/set | Traps and longline- random stratified, 5 to 100 tm | Continuation | None |
| | Marine mammals (dolphins & whales) | Juveniles/adults | Gulf of Mexico/ Caribbean | Territorial; open ocean (EEZ): Puetto Rico to Virgin Islands | GORDON GUNTER | 169 sea days (76 sea days in conjunction with plankton surveys) | Approximately 750 sightings, 200 biopsies and environmental data at sightings | Visual with bigeye binoculars: cross bow, tagging, Bongo array w/ .333-mm mesh nets: 1x2-m neuston w/ .950-mm mesh nets | Mammals-line transect; plankton- systematic grid | Continuation | None |
| | All planktonic stages (primarily Bluetin, Mackerel and Red Drum) of commercial and recreational importance | Eggs/larvae/ juveniles | Gulf of Mexico | Territorial: open ocean (EEZ) | OREGON II and GORDON GUNTER | 76 sea days in conjunction with the marine mammal surveys | 832 plankton and 396 environmental | Bongo array w/ .333-mm mesh nets; 1x2-m neuston w/ .950-mm mesh nets; Visual with bigeye binoculars | Plankton - systematic grid; mammals - line transect | Continuation | None |
| | Coastal Sharks: Red Snapper | Juveniles/sub- adults-adults | Gulf of Mexico | Territorial | OREGON II | 60 sea days | 300 longline and environmental | Monofiliment bottom longline with 100 books per set, tagging sharks | Sharks/Snapper - random and statistical zone in Gulf, 5 to 200 fm | Continuation | Pelagic sharks |
| Miami Lab (FL) | All recreationally & commercially important species; reef fish; mackerels | Larvae: juveniles; adults | Gulf of Mexico; SW & SE FL | Territorial; open ocean (EEZ) | Ship support provided by Pascagoula Lab | 120/yr | 3500/yr | Fish traps: Bongo nets 60 & 20-cm w/ .333-mm mesh: neuston 1x2-m w/ .947-mm mesh | Systematic, grid basis; long-term station selection: estuary entrances; reofs | Funding has been out and may be further reduced next FY. | Billfishes: tunas; sharks |

TABLE 1. SUMMARY OF INFORMATION PROVIDED BY FEDERAL AGENCIES

TABLE 1. (CONTINUED)

| | | | TYPES OF FISHEI SAMP | RY-INDEPENDENT PLING | | ANNUAL EFFO FISHERY-INDEPF BY ACT | RT DEVOTED TO ENDENT SAMPLING TIVITY IN: | TYPES OF GEAR | | | |
|--|--|-------------------------------|--------------------------|--|---|---|---|--|---|---|---|
| AGENCY | TARGET SPECIES | LIFE STAGES SAMPLED | AREA SAMPLED | GEOGRAPHIC AREAS OF IMPORTANCE | TYPES OF PLATFORMS | NUMBER OF DAYS | NUMBER OF STATIONS | TRAWLING, PLANKTON, TRAPS ETC. | SAMPLE STRATEGY FOR DATA COLLECTION | STATUS OF FISHERY- INDEPENDENT SURVEYS OVER NENT 5 YEARS | SPECIES PRESENTLY UNABLE TO SAMPLE |
| Galveston Lab (TX) | Penaeid shrimp; boltomfish; estuarine dependent spp. | Postlarvae-adults | Gulf of Mexico | Internal; (EEZ) | Ship support provided by Pascagoula Lab. Bag Boats | 257/yr | Varies | Otter trawls 10'-40': beam trawl; drop sampler | Random stratified for TX Closure; long- term studies for estuarine ecology | None | None |
| | Sea turtles | Juveniles-adults | Gulf of Mexico | Internal; EEZ (oil & gas platforms) | Bay boats; helicopters; crew boats; satellite zodiac; | 12/yr | 96 | 60' - 80' Otter trawls | Random | None | None |
| | | | | | | 45/yr | Varies | | Random | None | None |
| | Kemp's ridley sea | Hatchlings- | Gulf of Mexico (release | Territorial: EEZ (Texas) | U.S. Coast Guard | 2 | 1-2 releases/yr | Satellite; Geographic tracking | None | None | None |
| | turties | yearings | or tagged turtles) | | LONGHORN | Varies | 10-20 turtles | | None | None | None |
| | Sea turiles | Stranded juveniles- adults | SW LA; TX | Coastal beaches | ATVs: dirt bikes: outboard boats | 50 | Varies | None | Twice-monthly stratified random sampling by beach strata | None | None |
| | Sea wrtles | Juveniles, Adults | TX. LA | Coastal shelt | Satellite | Varies | 10-20 turtles | Satellite | Geographic Tracking | Continuation | None |
| Panama City Lab (FL) | Sharks | Juvenile/adults | NE Gulf of Mexico | Inshore | Small boats, OREGON II | Variable | Variable | Gillnets & Longlines | Systematic grìd | Continuation | None |
| | Reef Fish/Groupers | Adults/larvæ | NE Gulf of Mexico | 40 fm contour off Apalachicola and Florida Shelf | GORDON GUNTER | Variable | Variable | Hydroacoustics/ROV; 1x1 m Tucker Trawl (.333 mm mesh)/1x2 m neuston 0.547 mm mesh) Traps | Spawning aggregation & systematic transects | Continuation | None |
| | Groupers and snappers | Juveniles | NE Gulf of Mexico | Inshore; Seagrass meadows of West Florida Shelf | Smali boats | Variable | Variable | 16' trawl/crab scrape; neuston/push net | systematic stations | Funding Dependent | None |
| | Coral Restoration | | Presently South Atlantic | <u>Oculina</u> banks | FERREL and OREGON II | Variable | Variable | Traps, ROV. Exp. Substrates | Onsite | Continuation | None |
| Beaufort Lab | All species associated with seagrasses | Targeting juveniles | West Florida Shelf | Coastal Shelf | OREGON II; FERREL | 14 days | Trawl - 50/yr; Tucker Trawl - 50/yr; Bean Trawl - 50/yr; Gill net - 20 | Trawl - 50/yr; Tucker Trawl - 50/yr; Beam Trawl - 50/yr; Gill net - 20 | Target area specific | Continuation | None of targeted |
| | Mutton Snapper/all spp. | Larvae/Juveniles | Dry Tortugas | DT reef/seagrass | OREGON II; FERREL | 50 days | Bongo nets - 50; Diver operated Seines - 30 | Bongo nets - 50: Diver operated Seines - 30 | Stratefied random | Continuation | None of targeted |
| | Red Snapper, Spotted Seatrout, all spp. | Javeniles/Adults | Florida Bay; within ENP | Seagrass areas of FR | Small research craft | 40 days | Seines - 12; Trawls - 400; Bottom sled - 30 | Seines - 12; Trawls - 400: Bottom sled - 30 | Targeted and stratefied random | Funding dependent | None of targeted |
| NOAA/NOS/ SUSTATNABLE SEAS EXPEDITION (SSE) | Reef Fish | Subadults-adults | Gulf of Mexico | Territorial; open ocean (EEZ) | GORDON GUNTER | 22 sea days | 32 man submersible dives | Man submersible | Coral reef sites | Continuation | None |

TABLE 2. SUMMARY OF INFORMATION PROVIDED BY STATE AGENCIES

| | | | TYPES OF FISHEI SAMF | RY-INDEPENDENT PLING | | ANNUAL EFFO FISHERY-INDEPE BY ACT | RT DEVOTED TO INDENT SAMPLING TVITY IN: | TYPES OF GEAR | | - | |
|--|---|------------------------|---------------------------------------|--------------------------------------|---|---|--|---|--|---|---|
| AGENCY | TARGET SPECIES | LIFE STAGES SAMPLED | AREA SAMPLED | GEOGRAPHIC AREAS OF IMPORTANCE | TYPES OF PLATFORMS | NUMBER OF DAYS | NUMBER OF STATIONS | TRAWLING, PLANKTON, TRAPS, ETC. | SAMPLE STRATEGY FOR DATA COLLECTION | STATUS OF FISHERY- INDEPENDENT SURVEYS OVER NEXT 5 YEARS | SPECIES PRESENTLY UNABLE TO SAMPLE |
| FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION | Red drum; spotted trout; snook; king mackerel; mullet: gag; grouper; tarpon; baiffish; pompano; baiffish; tropical fish; stone crab; blue crab; spiny lobster; oysters; hard clam | All stages | FL waters & offshore | Internal; territorial; EEZ | 37'BONNE E; 24' T-craft inboard: small outboards & skiffs; 20' muller skiffs; 34' Allmand; 24' tunnel boar; 16' & 19' Monark; 17', 20' & 25' Boston Whalers: 85' HERNAN CORTEZ II, 20' Mako: 20' Electro shocker boat | Varies Weekly intervals (annually) 60/yr | Varies | 35' trawl; 100' bag seine; benthic sled w/ net; 600' x '8 trammel net; lobster & crab traps; beach seines, drop & gill nets; visual counts; underwater video; Bongo array; neuston nets | Systematic, random (stratified) grid basis; long-term station selection; short-term special studies | Increase sampling for baitfish distributed in spring; sampling for tarpon juveniles in nearshore water impoundments; grouper reproductive strategies; juvenile & adult life histories of grouper; icthyoplankton survey directed at clupeids, tarpon, snock & grouper; investigation of tropical reef fish life history & population dynamics | Mackerel, cobia. amberjack. reefiish (snapper. grouper) |
| ALABAMA DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES | All penaeid shrimp: southern flounder; Gulf menhaden; red drum: red snapper; blue crab; black drum; Spanish mackerel; striped mullet; spotted sea trout; oysters | Larvae-adults | AL marshes to territorial sea: EEZ | Internal; territorial; EEZ | 22' Tiara. (2) 90-hp; 25' Scahawk. (2) 150- hp; 38' Bertram; 60' R/V A.E. VERRLI; 21' Buskins 150-hp; 22' gillnet boat, 150-hp | 80/yr | Varies | 50' bag seine; 16' otter trawl; 40' SEAMAP trawl; trap/video; variable mesh gill net; 6' bean plankton trawl; neuston; oyster dredge | Long-term station relection, effort varies according to spawning season of target species monitoring reef fish populations at randomly selected reef sites | Increase effort to determine yr-class strength of target species: conduct more age & growth work; explore means to sample offshore reef fish areas | King mackeref, cobia |
| MISSISSIPPI DEPARTMENT OF MARINE RESOURCES | All penaeid shrimp; oysters: sciaenids; flounder; blue crrabs | Juveniles-adults | MS territorial sea | Internal; territorial: EEZ | 28' Outboard; 18' Outboard; 24' Outboard; 65' oyster dredge boat; 35' outboard; 23' skiff; 22' outboard | 50/yr 10/yr 50-60/yr | Varies; 6/mo (oyster) & 10- 36/mo (shrimp) varies | 16' trawl; oyster tongs & dredge; gill net, drop sampler | Long-term station selection, varies w/ opening & closing of areas; random grid sampling; sample night time recreational fishing | Increase tagging activities; age & growth work; seasonal abundance | Juvenile Red Snapper |

TABLE 2.(CONTINUED)

| | | | TYPES OF FISHE SAM | IRY-INDEPENDENT IPLING | | ANNUAL EFFO FISHERY-INDEPE BY ACT | RT DEVOTED TO NDENT SAMPLING IVITY IN: | TYPES OF GEAR | | | |
|---|---|------------------------|--|--------------------------------------|---|---|--|--|--|--|---|
| AGENCY | TARGET SPECIES | LIFE STAGES SAMPLED | AREA SAMPLED | GEOGRAPHIC AREAS OF IMPORTANCE | TYPES OF PLATFORMS | NUMBER OF DAYS | NUMBER OF STATIONS | TRAWLING, PLANKTON, TRAPS, ETC. | SAMPLE STRATEGY FOR DATA COLLECTION | STATUS OF FISIERY- INDEPENDENT SURVEYS OVER NEXT 5 YEARS | SPECIES PRESENTLY UNABLE TO SAMPLE |
| LOUISIANA DEPARTMENT OF WILDLIFE & FISHERIES | All penaeid shrimp; blue crab; finfish; oysters | Larvæ to adults | LA inshore waters; territorial seas; EEZ | Internal; territorial | 17' outboard; 30' inboard; leased vessel (SEAMAP) | State: 167; SEAMAP: 15 | Trawls: 800 1288 494 72 181 Finfish: 860 978 246 Oyster: 135 267 Plankton: 124 21 | Trawls: 6' (inshore); 16' (offshore); 40' (inshore); Hex Mesh Trap Finlish: Finlish: 50' bag seine; gill net; trammel net; Oyster: square meter; Dredge; Plankton: 1/2-m ring (.153-mm); 60cm bongo (.363-mm); 1x2m neuston (.948-mm) | Long-term fixed stations: stratified random stations (SEAMAP) | Increase territorial sea sampling: increase emphasis on finfish | Adult pelagic finfish in open Gulf waters |
| TEXAS PARKS AND WILDLIFE DEPARTMENT | All penaeid shrimp; all other species | Juveniles- adults | TX internal coastal waters: territorial sea | Internal; territorial | 30'-55' inboards; 18'- 25' outboards; skiffs | 365/yr | 2160/yr 1580/yr 960/yr 800/yr 1080/yr | 60' bag seines; 20' trawl (inshore); 20' trawl (offshore); gill nets; oyster dredge | Random, grid basis | None | Adult finfish in open Gulf waters |

TABLE 3. SUMMARY OF INFORMATION PROVIDED BY UNIVERSITIES

| | | | TYPES OF FISHEI SAMI | RY-INDEPENDENT PLING | | ANNUAL EFFOI FISHERY-INDEPEI BY ACTI | RT DEVOTED TO NDENT SAMPLING IVITY IN: | TYPES OF GEAR | | | |
|---|--|------------------------|------------------------------------|--------------------------------------|--|--|---|---|---|--|---|
| AGENCY | TARGET SPECIES | LIFE STAGES SAMPLED | AREA SAMPLED | GEOGRAPHIC AREAS OF IMPORTANCE | TYPES OF PLATFORMS | NUMBER OF DAYS | NUMBER OF STATIONS | TRAWLING, PLANKTON, TRAPS, ETC. | SAMPLE STRATEGY FOR DATA COLLECTION | CHANGES OF FISHERY- INDEPENDENT ACTIVITIES OVER NEXT 5 YEARS | HIGH PRIORITY SPECIES PRESENTLY UNABLE TO SAMPLE |
| | | | | |] | FLORIDA | | | | | |
| FLORIDA STATE UNIVERSITY | Benthic infauna: epibenthic fishes & invertebrates | Larvae-adults | NE Gulf of Mexico | Internal; territorial | 55-hp 25' skiffs; outboard | 48/уг | Monthly samples, both trawl & environmental | Standard 5-m otter trawl; 80-um plankton net | Systematic, random long-term station selection; short-term special studies | More environmental experimentation | Apalachicola & Apalachee Bay: and all species in those areas |
| UNIVERSITY OF WEST FLORIDA | Demersal vertebrates & invertebrates | Subadults-adults | NE Gulf of Mexico | Estuarine | 14' and 16' skiff; 22' center console | Varies | 50/yr 140iyr 180/yr | 16' otter trawl; 1-m bongos; 1-m neuston | Systematic, random (stratified) visual survey | More environmental assessment | |
| FLORIDA SEA GRANT | All species | All stages | Gulf: Caribbean; South Atlantie | Internal; territorial | No vessels owned - Depends on project | Varies | Varies | Varies | Varies | More recruitment | None |
| FLORIDA INSTITUTE OF OCEANOGRAPHY | All species | All stages | Gulf; Caribbean; South Atlantie | 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 w/ SEAMAP; expanded environmental sampling | None |
| UNIVERSITY OF FLORIDA | Reef fishes, epibenthic invertebrates, & benthic macrofauna | Juvenile to adults | Eastern Gulf of Mexico | Shallow Continental Shelf | Two 24' dive boats, 33' trawler | 160/yr | 192 visual fish samples/yr 672 benthic cores/yr | Otter trawl | Randomized sampling of experimental replicates | Increase experimental replicates & add disciplines & zooplankton | Primary producers |
| UNIVERSITY OF | All species | All stages | Gulf; Caribbean; South Atlantic | Estuarine; offshore; inshore | Offshore: COLOMBUS ISEUN: | 240/yr; | Varies; | Hydroacoustics: Various plankton nets | Varies | More hydroacoustics | None |
| | | | | | inshore: CALANUS; estuarine: 25' 1/O | 200/yr; 150/yr | Varies; Varies | | | | |

TABLE 3. (CONTINUED)

| | | | TYPES OF FISHEI SAMI | RY-INDEPENDENT PLING | | ANNUAL EFFOI FISHERY-INDEPE BY ACT | RT DEVOTED TO NDENT SAMPLING WITY IN: | TYPES OF GEAR | | | |
|--|--|--|--|---|--|--|---|--|---|--|---|
| AGENCY | TARGET SPECIES | LIFE STAGES SAMPLED | AREA SAMPLED | GEOGRAPIIIC AREAS OF IMPORTANCE | TYPES OF PLATFORMS | NUMBER OF DAYS | NUMBER OF STATIONS | TRAWLING, PLANKTON, TRAPS, ETC. | SAMPLE STRATEGY FOR DATA COLLECTION | STATUS OF FISHERY- INDEPENDENT SURVEYS OVER NEXT 5 YEARS | SPECIES PRESENTLY UNABLE TO SAMPLE |
| | | | | | A | LABAMA | | | | | |
| DAUPHIN ISLAND SEA LAB | Oysters; blue crab | Larvae-adult | Mobile Bay; east MS Sound | Estuarine | 26'-42' reseach vessels | Biweekly; 48 hour time series | Hundreds | Clark-Bumpus zooplankton | Distribution patterns; settle-ment factors | None | None |
| UNIVERSITY OF South Alabama | Sciaenids; hard clam; blue crab; red snapper | Larvae-adult | Shelf & mouth of Mobile Bay; NW FL; east AL | Shelf; estuaries; grassbeds | 21' skiffs 50"R/V | 22/24 episodic/mo 12/year | Several hundred | Fishing; surface; demersal | Environmental impact/growth rate; Tag/Release | Shift toward management application | None |
| MISSISSIPPI- ALABAMA SEA GRANT CONSORTIUM | General | Vertebrates: larvae; invertebrates: all stages | Northern Guli of Maxico; MS Sound; Mobile Bay | Territorial; EEZ; estuarine; coastal | 96' TOMMY MUNRO; skiffs; industry | Varies | Varies | Crab pots: tongs; closed. recirculating seawater system; opening/ closing plankton trawl; Block nets/seine Various Plankton Nets | Varies | None | None |
| | Estuarine fish species | Juvenile-subadult | Weeks Bay, AL | Estuarine | 14' skiffs | 60/yr | 180/yr | | Random, concentrated in May, June & September | None | None |
| | | | | | M | IISSISSIPPI | | | | | |
| UNIVERSITY OF SOUTHERN MISSISSIPPI/ COLLEGE OF MARINE SCIENCES/GULF COAST RESEARCH LABORATORY | All estuarine finfish; All penaeid shrimp; blue crab; croaker; spot; seatrout; catfish; Gulf menhanden; mullet; Atl. bumper; butterfish; cutlassfish; red drum; squid; golden Gulf crabs/red crabs; jellyfish | All stages | MS estuarine; northern Gulf; Biloxi Bay; MS territorial sea; offsbore to 2000 m; sargassum as critical habitat | Estuarine; territorial; EEZ | Various small skiffs; 96' TOMMY MUNRO; 20' - 30' outboards; 55' TOM MCILWAIN; 40' HERMES: 128' IX508 (ROV support) | Varies | Varies | Standard basic equipment; 50' bag seine; 16' & 36' otter trawl; 6' Renfro beam trawl; variable mesh gill net; 40' shrimp trawl; 80' high-rise net; erab traps; standard basic equipment for hydrologic sampling; Tucker trawl; neuston; bongo; Benthos ROV; Seabird CTD | Short-term special studies; Stratified, random long-term station selection; fixed station long- term | Increase development of marine & coastal biology program: Expansion of monitoring & assessment if funds become available: longline for pelagie fishes; boutom long- lining; deepwater traps for crabs; monitoring of essential fish habitat | None |
| MISSISSIPPI- Alabama sea Grant Consortium | General | Vertebrates: juveniles; invertebrates: all stages | Northern Gulf of Mexico; MS Sound; Mobile Bay | Territorial; EEZ; estuarine; coastal | 96' TOMMY MUNRO; skiffs | Varies | Varies | Varies; Various Plankton Nets | Varies | None | None |

TABLE 3. (CONTINUED)

| | | | TYPES OF FISHEI SAMI | RY-INDEPENDENT PLING | | ANNUAL EFFO FISHERY-INDEPE BY ACT | RT DEVOTED TO NDENT SAMPLING IVITY IN: | TYPES OF GEAR | | | |
|---|---|--|---|--------------------------------------|--|---|--|---|---|--|---|
| AGENCY | TARGET SPECIES | LIFE STAGES SAMPLED | AREA SAMPLED | GEOGRAPHIC AREAS OF IMPORTANCE | TYPES OF PLATFORMS | NUMBER OF DAYS | NUMBER OF STATIONS | TRAWLING, PLANKTON, TRAPS, ETC. | SAMPLE STRATEGY FOR DATA COLLECTION | STATUS OF FISHERY- INDEPENDENT SURVEYS OVER NEXT 5 YEARS | SPECIES PRESENTLY UNABLE TO SAMPLE |
| | | | | | L | OUISIANA | | | | | |
| UNIVERSITY OF NEW ORLEANS | Blue crah; oyster; marine commercial finfish | Ali stages | Lake Pontchartrain; Lake Borgne | Estuarine | | Varies | | | Short-tern) special studies | Analyze commercial fish populations using electrophoresis; studies of oyster nutrition & parasitology | Νοπε |
| NICHOLLS STATE UNIVERSITY | Oysters | Post-Settlement (juvenile to adult) | Barataria Bay | Estuarine | 24' bay boat | 26-30 days (montly to bi-weekly) | 5 | Oyster dredgesample | Systematic/transect | Minimum of next two years | None |
| UNIVERSITY OF LOUISIANA - LAYFAYETTE | Stone crab; penaeid shrimp; commercial finfish | All stages | Northern Gulf of Mexico | Coastal; estuarine | Various LUMCON vessels (PELICAN, ACADIANA, skiffs) | Varies | Varies | Trawl; dredge; traps; pots; seines | Varies by population | None | None |
| LOUISIANA STATE UNIVERSITY | Estuarine & marine finfish species; decapod crustaceans | All stages | Barataria, Terrebonne & Timbalier Bay; Lake Pontchartrzin; MS River mouth; Atchafalaya | Estuarine; territorial | Small skiffs; PELICAN; ACADIANA; oil & gas structures | Varies monthly | Varies | Drop BOT sampler; gill net; hydro-acoustics trawl; MOCNESS opening & closing bongo nets; general plankton nets, light traps | Short-term special studies; long-term stations; tidal transport & re- cruitment | Estimate fish abundance & movement using hydroacoustics; examine growth rates & reproductive biology of important estuarine species: recruitment studies | None |
| LOUISIANA UNIVERSITIES MARINE CONSORTIUM | Zooplankton; benthos: bottomfish; anchovies | All stages | Terrebonne & Timbalier Bay; inner continential shelf | Estuarine; coastal | 115' R/V PELICAN; 58' R/V ACADIANA; small outboards | Varies | Varies | 5-m otter trawl; .333 & .505 mesh; general plankton nets | Fixed station, transects, varies | None | None |

TABLE 3.(CONTINUED)

| | | | TYPES OF FISHEI SAMI | RY-INDEPENDENT PLING | | ANNUAL EFFOI FISHERY-INDEPEI BY ACT | RT DEVOTED TO NUENT SAMPLING IVITY IN: | TYPES OF GEAR | | | |
|--|---|------------------------|----------------------------------|---|---|---|--|--|--|---|---|
| AGENCY | TARGET SPECIES | LIFE STAGES SAMPLED | AREA SAMPLED | GEOGRAPHIC AREAS OF IMPORTANCE | TYPES OF PLATFORMS | NUMBER OF DAYS | NUMBER OF STATIONS | TRAWLING, PLANKTON, TRAPS, ETC. | SAMPLE STRATEGY FOR DATA COLLECTION | STATUS OF FISHERY- INDEPENDENT SURVEYS OVER NEXT 5 YEARS | SPECIES PRESENTLY UNABLE TO SAMPLE |
| | | | | | | TEXAS | | | | | |
| UNIVERSITY OF TEXAS, MARINE SCIENCE INSTITUTE | Shelf & bay species | All stages | Internal; territorial waters | Internal; territorial | 105' LONGHORN; 57' KATY; shallow-draft bay boats | 100/yr | Varies | 42' semiballoon shrimp trawl; 40' semiballon otter trawl; 12' x 24" plankton net | Short-term special studies | Institute expansion on all present programs | None |
| TEXAS A&M UNIVERSITY - 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 UNIVERSITY | All macro- crusteceans & finfish | All stages | NW Guif off LA & TX | Interna): territorial | 71' EXCELLENCE II; 47' ROMIN EMPIRE | Varies | Varies | 34' & 50' semi-balloon trawls; Bongo net w/ .333-mm & .505-mm mesh | Short-term special studies | None | None |
| TEXAS A&M UNIVERSITY - CORPUS CHRISTI | All species, shelf and bay | All stages | Sabine to Brownsville | Flower Gardens area; Corpus Christi; and Laguna Madre | Offshore oil and gas platforms; shallow bay boats | Varies | Varies | Gill nets; seines; other trawls; Scuba fish counts; Smail, bays only | Both short-term special, and long- term; diving fish counts | Νοηε | None |
| UNIVERSITY OF TEXAS-PAN AMERICAN | All finfish & benthic macrofauna of Laguna Madre: | All stages | Corpus Christi to Brownsville | Laguna Madre; Gulf inshore | Shallow-draft bay boats | 48/yr | Biweekly & monthly depending on project | Otter trawls & bag seines; Plankton tows | Long-term baseline studies | Intensive studies of individual species | None |

TABLE 4. NON-PROFIT ORGANIZATIONS

| | | | TYPES OF FISHER SAME | RY-INDEPENDENT PLING | | ANNUAL EFFO FISHERY-INDEPF BY ACT | DRT DEVOTED TO ENDENT SAMPLING FIVITY IN: | TYPES OF GEAR | | | |
|--|--|--------------------------------|---|---|---|---|---|--|---|--|--|
| AGENCY | TARGET SPECIES | LIFE STAGES SAMPLED | AREA SAMPLED | GEOGRAPHIC AREAS OF IMPORTANCE | TYPES OF PLATFORMS | NUMBER OF DAYS | NUMBER OF STATIONS | TRAWLING, PLANKTON, TRAPS, ETC. | SAMPLE STRATEGY FOR DATA COLLECTION | STATUS OF FISHERY- INDEPENDENT SURVEYS OVER NEXT 5 YEARS | SPECIES PRESENTLY UNABLE TO SAMPLE |
| THE CONSERVANCY OF SOUTHWEST FLORIDA IN NAPLES | All fish species especially spotted seatrout; sea turtles, mangroves, and manatees | All stages excluding larvae | Southeastern Gulf of Mexico | Estuaries; reefs; mangroves; nearshore; heaches | 35 hp, 19' skiff; 185 hp, 20' flats boat; twin 50 hp, 25' barge | 100/yr | Varies | hook-and-line; dip nets; beach seines | Visual surveys, stratified, transects | Anticipate more underwater visual surveys, hook- and-line tagging studies for seatrout, behavioral studies on dolphins using photography | Program to photograph dolphins is just beginning but are unable to sample more than 10 miles offshore with current capabilities |
| SANIBEL-CAPTIVA CONSERVATION FOUNDATION | Seagrasses, benthic vertebrates and invertebrates. mangroves, and estuarine fishes | All stages | Chiefly marine and estuarine habitats around Sanibel and Captiva Islands | Estuaries, beaches, and artificial reefs | 25', 17, 16', and 14' boats/trailerable | 150/yr | 8 multi-disciplinary, annually; others as per project | 12' otter trawl, 180' seine. 70' seine (FMRI/FIN standards) | M Stratified random, haphazard, fixed station | Increase in the number of FMRI/FIM stations | Large pelagic fishes, mamals |

APPENDIX B

SEAMAP DOCUMENTS

SEAMAP DOCUMENTS LIST, 1982 - CURRENT

- 1) <u>SEAMAP Strategic Plan</u>, 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) <u>SEAMAP Quick-Reports</u> (Data Summaries): six summaries, June-July 1981; seven summaries, June-July 1983; seven summaries, June-July 1984; five summaries, June-July 1986; six summaries, June-July 1987; five summaries, June-July 1988; six summaries, June-July 1989; six summaries, June-July 1990; five summaries, June-July 1991; six summaries, June-July 1992; six summaries, June-July 1993; six summaries, June-July 1994; and six summaries, June-July 1995; six summaries, June-July 1996; six summaries, June-July 1997; one summary, June 1998; seven summaries, June-July 1996; six summaries, June-July 2001; seven summaries, June-July 2002; and seven summaries, June-July 2003. 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 rate information on red snapper in the northern Gulf of Mexico indicating stations sampled and catch rates.
- 3) <u>1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, and 2003 SEAMAP Marine Directories</u>: May 1983, March 1984, March 1985, March 1986, September 1987, July 1988, August 1989, June 1990, April 1991, April 1992, February 1993, March 1994, March 1995, March 1996, March 1997, February 1998, February 1999, February 2000, February 2001, February 2002, and February 2003. 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.

SEAMAP DOCUMENTS LIST, 1982 - CURRENT

- 7) SEAMAP Environmental and Biological Atlases of the Gulf of Mexico, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000 and 2001. January 1985; February 1986; October 1986; June 1988; April 1990; December 1990; March 1991; December 1991; December 1992; July 1993; December 1994; January 1996; March 1997; March 1997; January 1998; January 1999; July 2001; April 2002; and February 2004. Compilations of information obtained from the 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, and 2001 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) <u>SEAMAP 1982, 1983, 1984 & 1985, 1986 Ichthyoplankton Atlases</u>. NOAA Technical Memoranda NMFS-SEFC-144 (1985), NMFS-SEFC-167 (1986), NMFS-SEFC-317 (1993), NMFS-SEFC-245 (1990) 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, 1983, 1984, 1985 and 1986.
- 9) Proceedings: SEAMAP Shrimp and Bottomfish Sampling Gear Workshop, August 1985. A summary of seven technical papers and a panel discussion on shrimp/groundfish sampling gear, presented at the 33rd Annual Spring Meeting of the Gulf States Marine Fisheries Commission. Included are recommendations for standardizing and calibrating bottom trawl survey activities and for satisfying future research requirements.
- 10) Annual Report of the Southeast Area Monitoring and Assessment Program,

October 1, 1984 - September 30, 1985, October 1985; October 1, 1985 - September 30, 1986, October 1986; October 1, 1986 - September 30, 1987, December 1987; October 1, 1987 - September 30, 1988, August 1989; October 1, 1988 - September 30, 1989, March 1990; October 1, 1989 - September 30, 1990, March 1991; October 1, 1990 - September 30, 1991, December 1991; October 1, 1991 - September 30, 1992, December 1992; October 1, 1992 - September 30, 1993, December 1993; October 1, 1993 - September 30, 1994, December 1994; October 1, 1994 - September 30, 1995, December 1995; October 1, 1995 - September 30, 1996, December 1996; October 1, 1996 - September 30, 1997, December 1997; October 1, 1997 - September 30, 1998, January 1999; October 1, 1998 - September 30, 1999, December 1999; October 1, 1999 - September 30, 2000, December 2000; October 1, 2000 - September 30, 2001, December 2001; October 1, 2001 - September 30, 2002, December 2002; and October 1, 2002 - September 30, 2003, December 2003

Summaries of activities and proposed events for the SEAMAP-Gulf, SEAMAP-South Atlantic and SEAMAP-Caribbean components.

SEAMAP DOCUMENTS LIST, 1982 - CURRENT

- 11) <u>Data Management System Requirements Document for Gulf and South Atlantic</u>, November 1986.
- 12) <u>Data Management System Design Study for Gulf and South Atlantic</u>, March 1987. A result of the system design study, this documents describes the high level design of the proposed system and presents a five year implementation plan.
- 13) <u>SEAMAP Operations Manual for Collection of Data</u>, May 1987; May 1990 (2nd revision); September 1993 (3rd revision); and April 2001 (4th revision). A manual presenting the procedures to be followed by all vessels that participate in SEAMAP surveys.
- 14) <u>SEAMAP Data Management System Users Manual</u>, August 1989. A manual outlining system operations and procedures needed to enter, edit, upload and download data on the PC- based system.
- 15) <u>Southeast Area Monitoring and Assessment Program (SEAMAP) Management Plan: 2001-</u> 2005, August 2001. A detailed description of the SEAMAP program which outlines the program goals, objectives and management policies and procedures.
- 16) <u>Proceedings: Reef Fish Workshop for SEAMAP</u>, November 1995. A summary of presentations that were given at the workshop and recommendations developed by the group concerning sampling oil and gas structures in the Gulf of Mexico.
- 17) <u>Southeast Area Monitoring and Assessment Program (SEAMAP) Executive Summary of the SEAMAP Management Plan: 1996-2000</u>. An overview of the program achievements, information dissemination, goals and objectives, program operations, and potential future activities for the SEAMAP Program.
- 18) Proceedings: General Session Concerning the Uses of Fishery-Independent Data for Fisheries Management, October 1996, No. 35. Summary of presentations presented at the 46th Annual Fall Meeting of the Gulf States Marine Fisheries Commission regarding the value of fisheryindependent data for use in fisheries management.

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 (228-875-5912).