

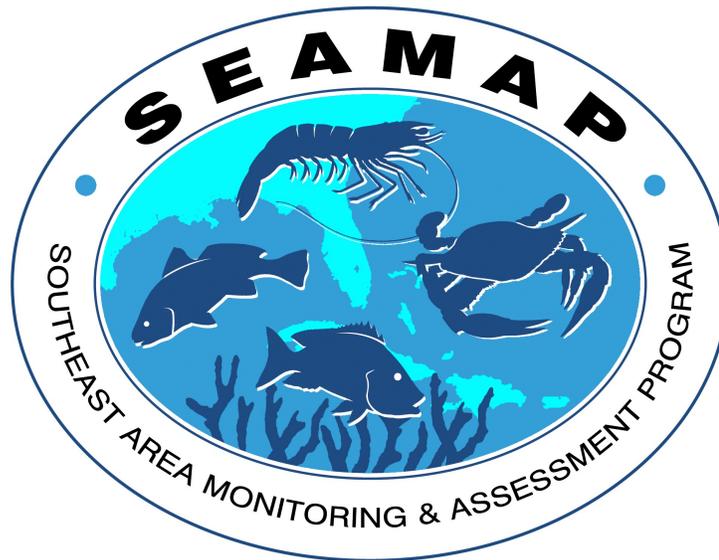
**2013 SEAMAP-GULF OF MEXICO**

# **MARINE DIRECTORY**

***Fishery-Independent Survey Activities***

**SOUTHEAST AREA MONITORING  
AND ASSESSMENT PROGRAM**

***Read Hendon, Chairman***



***Number: 213***

***February 2013***

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# 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 2013 Directory were contacted in January 2013 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:

Jeffrey K. Rester  
SEAMAP-Gulf Coordinator  
Gulf States Marine Fisheries Commission  
2404 Government Street  
Ocean Springs, Mississippi 39564  
(228) 875-5912  
(228) 875-6604 FAX  
E-Mail: [jrester@gsmfc.org](mailto:jrester@gsmfc.org)

***APPENDIX A***

***MARINE AGENCY CONTACTS***

## **FEDERAL AGENCIES**

### **U.S. DEPARTMENT OF COMMERCE** **NOAA/National Marine Fisheries Service** **Southeast Fisheries Science Center**

Dr. Bonnie Ponwith, Center Director  
75 Virginia Beach Drive  
Miami, Florida 33149  
(305) 361-4264, (305) 361-4219 FAX  
[bonnie.ponwith@noaa.gov](mailto:bonnie.ponwith@noaa.gov)

Dr. Theo Brainerd, Deputy Director  
75 Virginia Beach Drive  
Miami, Florida 33149  
(305) 361-4284, (305) 361-4219 FAX  
[theo.brainerd@noaa.gov](mailto:theo.brainerd@noaa.gov)

#### **Sustainable Fisheries Division**

Dr. Clay Porch, Division Director  
75 Virginia Beach Drive  
Miami, FL 33149  
(305) 361-4232, (305) 361-4515 FAX  
[clay.porch@noaa.gov](mailto:clay.porch@noaa.gov)

#### **Protected Resources/Biodiversity Division**

Dr. James Bohnsack, Division Director  
75 Virginia Beach Drive  
Miami, FL 33149  
(305) 361-4252, (305) 361-4478 FAX  
[jim.bohnsack@noaa.gov](mailto:jim.bohnsack@noaa.gov)

#### **Fisheries Statistics Division**

Dr. Steve Turner, Chief  
75 Virginia Beach Drive  
Miami, FL 33149  
(305) 361-4482, (305) 361-4515 FAX  
[steve.turner@noaa.gov](mailto:steve.turner@noaa.gov)

#### **Galveston Laboratory**

Dr. Roger Zimmerman, Laboratory Director  
4700 Avenue U  
Galveston, TX 77551-5997  
(409) 766-3500, (409) 766-3508 FAX  
[roger.zimmerman@noaa.gov](mailto:roger.zimmerman@noaa.gov)

#### **Mississippi Laboratories**

Dr. Lisa Desfosse, Director  
Pascagoula Facility  
P.O. Drawer 1207  
Pascagoula, MS 39568-1207  
(228) 762-4591, (228) 769-9200 FAX  
[lisa.desfosse@noaa.gov](mailto:lisa.desfosse@noaa.gov)

Dr. Christopher Gledhill, Branch Chief  
Stennis Space Center  
SSC, MS 39529  
(228) 688-3104, (228) 688-1151 FAX  
[christopher.t.gledhill@noaa.gov](mailto:christopher.t.gledhill@noaa.gov)

#### **Panama City Laboratory**

Mr. Guy Davenport, Laboratory Director  
3500 Delwood Beach Road  
Panama City, FL 32408  
(850) 234-6541 ext. 203, (850) 235-3559 FAX  
[guy.davenport@noaa.gov](mailto:guy.davenport@noaa.gov)  
[www.sefscpanamalab.noaa.gov](http://www.sefscpanamalab.noaa.gov)

#### **Beaufort Laboratory**

Dr. Aleta Hohn, Laboratory Director  
101 Pivers Island Road  
Beaufort, NC 28516  
(252) 728-8797; (252) 728-8784 FAX  
[aleta.hohn@noaa.gov](mailto:aleta.hohn@noaa.gov)

#### **NOAA/National Marine Fisheries Service/NOS**

Center for Coastal Fisheries and Habitat Research  
Dr. David Johnson, Center Director  
National Ocean Service  
101 Pivers Island Road  
Beaufort, NC 28516  
(252) 728-8746, (252) 728-8784 FAX  
[david.johnson@noaa.gov](mailto:david.johnson@noaa.gov)

## **U.S. DEPARTMENT OF INTERIOR**

### **Bureau of Ocean Energy Management, Regulation and Enforcement (BOEMRE)**

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.rosicigno@boemre.gov](mailto:pasquale.rosicigno@boemre.gov)

Dr. Alexis Lugo-Fernandez  
LA/TX Shelf Physical Oceanography  
(504) 736-2593, (504) 736-2901 FAX  
[alexis.lugo.fernandez@boemre.gov](mailto:alexis.lugo.fernandez@boemre.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](mailto:allan_strand@fws.gov)

### **U.S. Geological Survey, Biological Resources**

Dr. Gregory J. Smith  
National Wetlands Research Center  
700 Cajundome Boulevard  
Lafayette, LA 70506-3152  
(337) 266-8501, (337) 266-8610 FAX  
[gregory\\_smith@usgs.gov](mailto:gregory_smith@usgs.gov)  
[www.nwrc.gov](http://www.nwrc.gov)

**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](mailto: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 740  
Tampa, FL 33609  
(813) 286-8390, (813) 286-8261 FAX  
[judy.jamison@att.net](mailto:judy.jamison@att.net)

**THE CONSERVANCY OF SOUTHWEST  
FLORIDA IN NAPLES**

Dr. Dave Addison, Co-Director  
Dr. Kathy Worley, Co-Director  
Environmental Science  
1450 Merrihue Drive  
Naples, FL 34102  
(239) 403-4230, (239) 403-4223 FAX  
[daddison@conservancy.org](mailto:daddison@conservancy.org)  
[kworley@conservancy.org](mailto:kworley@conservancy.org)

**SANIBEL-CAPTIVA CONSERVATION  
FOUNDATION**

Dr. Eric Milbrandt, Director  
Marine Laboratory  
900A Tarpon Bay Road  
Sanibel, FL 33957  
(239) 395-3115, (239) 395-4616 FAX  
[emilbran@sccf.org](mailto:emilbran@sccf.org)

**STATE AGENCIES****ALABAMA DEPARTMENT OF  
CONSERVATION AND NATURAL  
RESOURCES**

Mr. John Mareska  
Marine Resources Division  
2 North Iberville Drive  
P.O. Box 189  
Dauphin Island, AL 36528  
(251) 861-2882; (251) 861-8741 FAX  
[john.mareska@dcnr.alabama.gov](mailto:john.mareska@dcnr.alabama.gov)

**FLORIDA FISH AND WILDLIFE  
CONSERVATION COMMISSION FISH AND  
WILDLIFE RESEARCH INSTITUTE**

Mr. Robert McMichael  
100 8th Avenue, S.E.  
St. Petersburg, FL 33701-5095  
(727) 896-8626, (727) 823-0166 FAX  
[bob.mcmichael@myfwc.com](mailto:bob.mcmichael@myfwc.com)

**LOUISIANA DEPARTMENT OF WILDLIFE  
AND FISHERIES**

Mr. Myron Fischer  
P.O. Box 33  
Grand Isle, LA 70358  
(985) 787-2163, (985) 787-4517 FAX;  
(985) 258-6006 CELL  
[mfischer@wlf.la.gov](mailto:mfischer@wlf.la.gov)

**MISSISSIPPI DEPARTMENT OF MARINE  
RESOURCES**

Mr. Dale Diaz  
1141 Bayview, Suite 101  
Biloxi, MS 39530  
(228) 523-4064 (228) 374-5220 FAX  
[dale.diaz@dmr.ms.gov](mailto:dale.diaz@dmr.ms.gov)

**TEXAS PARKS AND WILDLIFE  
DEPARTMENT**

Mr. Fernando Martinez-Andrade  
NRC Building, Suite 2500  
6300 Ocean Drive, UNIT 5845  
Corpus Christi, TX 78412-5845  
(361) 825-3028; (361) 825-3370 - FAX  
[Fernando.Martinez-Andrade@tpwd.state.tx.us](mailto:Fernando.Martinez-Andrade@tpwd.state.tx.us)

**UNIVERSITIES****SEA GRANT PROGRAMS****Florida Sea Grant College Program**

Dr. Karl E. Havens, Director  
Dr. Charles Sidman, Associate Director for Research  
University of Florida  
P.O. Box 110400  
Gainesville, FL 32611-0400  
(352) 392-5870, (352) 392-5113 FAX  
[khavens@ufl.edu](mailto:khavens@ufl.edu); [csidman@ufl.edu](mailto:csidman@ufl.edu)

**Mississippi-Alabama Sea Grant Consortium**

Dr. LaDon Swann, Director  
703 East Beach Boulevard  
Ocean Springs, MS 39564  
(228) 818-8841  
[swanndl@auburn.edu](mailto:swanndl@auburn.edu)  
[www.masgc.org](http://www.masgc.org)

**Louisiana Sea Grant College Program**

Dr. Robert R. Twilley, Executive Director  
238 Sea Grant Building  
Louisiana State University  
Baton Rouge, LA 70803-7507  
(225) 578-6445, 578-6331 FAX  
[rtwilley@lsu.edu](mailto:rtwilley@lsu.edu)  
[www.laseagrant.org](http://www.laseagrant.org)

**Texas Sea Grant Program**

Dr. Pamela Plotkin, Director  
Texas A&M University  
4115 TAMU  
College Station, TX 77845  
(979) 845-3854, (979) 845-7525 FAX  
[plotkin@tamu.edu](mailto:plotkin@tamu.edu)

**ALABAMA UNIVERSITY PROGRAMS****Dauphin Island Sea Lab**

Dr. John Valentine, Executive Director  
101 Bienville Boulevard  
Dauphin Island, AL 36528  
(251) 861-2141, (251) 861-7540 FAX  
[jvalentine@disl.org](mailto:jvalentine@disl.org)

**University of Alabama**

Dr. Behzad Mortazavi  
Marine Sciences Program  
DISL  
101 Bienville Boulevard  
Dauphin Island, AL 36528  
(251) 861-7528, (251) 861-7540 FAX  
[bmortazavi@ua.edu](mailto:bmortazavi@ua.edu)

**Talladega College**

Dr. Alison Brown, Acting Director  
Department of Biology  
627 West Battle Street  
Talladega, AL 35160  
(256) 761-6310  
[alisonbrown@talladega.edu](mailto:alisonbrown@talladega.edu)

**University of South Alabama**

Dr. Sean Powers  
Department of Marine Sciences  
Life Sciences Building Room 25  
Mobile, AL 36688-0002  
(251) 460-6101, (251) 460-7357 FAX  
[spowers@usouthal.edu](mailto:spowers@usouthal.edu)

**FLORIDA UNIVERSITY PROGRAMS****Florida Institute of Oceanography**

Dr. Jyotika Virmani  
830 First St., South  
St. Petersburg, FL 33701  
(727) 553-1100, (727) 553-1109 FAX  
[Jyotika@usf.edu](mailto:Jyotika@usf.edu)

**Florida State University**

Dr. Robert Livingston  
Department of Biological Sciences  
Tallahassee, FL 32306  
(904) 644-4887, (904) 644-9829 FAX  
[livingston@bio.fsu.edu](mailto:livingston@bio.fsu.edu)

**University of Florida**

Dr. William J. Lindberg  
Dept. of Fisheries and Aquatic Sciences  
7922 NW 71<sup>st</sup> Street  
Gainesville, FL 32653-3071  
(352) 392-9617 ext. 239, (352) 846-1088 FAX  
[wjindber@mail.ifas.ufl.edu](mailto:wjindber@mail.ifas.ufl.edu)

**University of South Florida**

Dr. Norman J. Blake  
Department of Marine Science  
140 Seventh Avenue, South  
Room MSL212  
St. Petersburg, FL 33701  
(727) 553-1521, (727) 553-1189  
[nblake@marine.usf.edu](mailto:nblake@marine.usf.edu)  
<http://www.marine.usf.edu/misc/facindex.html>

**University of Miami**

Dr. Nelson M. Ehrhardt  
Rosenstiel School of Marine  
and Atmospheric Science  
4600 Rickenbacker Causeway  
Miami, FL 33149  
(305) 361-4741, (305) 361-4600 FAX  
[nehrhardt@rsmas.miami.edu](mailto:nehrhardt@rsmas.miami.edu)

**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](mailto:gstewart@uwf.edu)

## LOUISIANA UNIVERSITY PROGRAMS

### **Louisiana State University**

Dr. Richard F. Shaw, Professor  
Department of Oceanography & Coastal Sciences  
School of the Coast and Environment  
Baton Rouge, LA 70803-6513  
(225) 578-6734, (228) 578-6513 FAX  
[rshaw@lsu.edu](mailto:rshaw@lsu.edu)

### **Nicholls State University**

Dr. Earl Melancon  
Department of Biological Sciences  
Thibodaux, LA 70310  
(985) 448-4689; 493-2496 - FAX  
[earl.melancon@nicholls.edu](mailto:earl.melancon@nicholls.edu)

### **Louisiana Universities Marine Consortium (LUMCON)**

Dr. Nancy Rabalais, Executive Director  
8124 Highway 56  
Chauvin, LA 70344  
(985) 851-2801; 851-2874 FAX  
[nrabalais@lumcon.edu](mailto:nrabalais@lumcon.edu)

### **University of Louisiana - Lafayette**

Dr. Darryl Felder, Professor  
Department of Biology  
251 Billeaud Hall, Box 42451  
Lafayette, LA 70504-2451  
(337) 482-6753, (337) 482-5834  
[dfelder@louisiana.edu](mailto:dfelder@louisiana.edu)

## MISSISSIPPI UNIVERSITY PROGRAMS

### **The University of Southern Mississippi Gulf Coast Research Laboratory**

Dr. Eric Powell, Director  
Gulf Coast Research Laboratory  
703 East Beach Drive  
Ocean Springs, MS 39564  
(228) 818-8810, (228) 818-8848 FAX  
[eric.n.powell@usm.edu](mailto:eric.n.powell@usm.edu)  
<http://www.usm.edu/gcrl>

## TEXAS UNIVERSITY PROGRAMS

### **The University of Texas-Pan American**

Dr. Thomas Whelan III, Director  
Coastal Studies Laboratory  
100 Marine Lab Drive  
South Padre Island, TX 78597  
(956) 761-2644; (956) 761-2913 FAX  
[twhelan3@utpa.edu](mailto:twhelan3@utpa.edu)  
<http://www.utpa.edu/dept/csl/csl.html>

### **Texas A & M University at Galveston**

Dr. André M. Landry, Jr.  
Department of Marine Biology  
Institute of Marine Life Sciences  
P.O. Box 1675  
Galveston, TX 77553-1675  
(409) 740-4889, (409) 740-5001 FAX  
[landrya@tamug.edu](mailto:landrya@tamug.edu)

### **Texas A & M University - Kingsville**

Dr. John C. Pérez  
Regents Professor of Biology and Director of the  
Natural Toxins Research Center NTRC  
MSC 158  
975 W. Avenue B  
Kingsville, TX 78363-8202  
(361) 593-3805; (361) 593-3798 FAX  
[kfjcp00@tamuk.edu](mailto:kfjcp00@tamuk.edu)

### **University of Houston**

Dr. Dan Wells, Chair  
Department of Biology and Biochemistry  
369 Science and Research Building 2  
Houston, TX 77204  
(713) 743-2644  
[dwells@uh.edu](mailto:dwells@uh.edu)

### **The University of Texas at Austin**

Dr. W. Arthur Porter, Acting Director  
Marine Science Institute  
750 Channel View Drive  
Port Aransas, TX 78373-5015  
(361) 749-6730, (361) 749-6777 FAX  
[sporter@cns.utexas.edu](mailto:sporter@cns.utexas.edu)

### **Texas A&M University at Corpus Christi**

Dr. Larry McKinney, Director  
Harte Research Institute for Gulf of Mexico Studies  
6300 Ocean Drive, HRI 318D  
Corpus Christi, TX 78412  
(361) 825-2070, (361) 825-2050 FAX  
[larry.mckinney@tamucc.edu](mailto:larry.mckinney@tamucc.edu)  
<http://www.hartheresearchinstitute.org>

**TABLE 1. SUMMARY OF INFORMATION PROVIDED BY FEDERAL AGENCIES**

			TYPES OF FISHERY-INDEPENDENT SAMPLING			ANNUAL EFFORT DEVOTED TO FISHERY-INDEPENDENT SAMPLING BY ACTIVITY IN:		TYPES OF GEAR			
AGENCY	TARGET SPECIES	LIFE STAGES SAMPLED	AREA SAMPLED	GEOGRAPHIC AREAS OF IMPORTANCE	TYPES OF PLATFORMS	NUMBER OF DAYS	NUMBER OF STATIONS	TRAWLING, PLANKTON, TRAPS, ETC.	SAMPLE STRATEGY FOR DATA COLLECTION	STATUS OF FISHERY-INDEPENDENT SURVEYS OVER NEXT 5 YEARS	SPECIES PRESENTLY UNABLE TO SAMPLE
<b>NOAA/NMFS/SEFSC</b>											
Mississippi Labs	Bottomfish/ shrimp; pelagic with planktonic stages	Subadults-adults; eggs/larvae	Gulf of Mexico (Alabama to Texas)	Territorial	170' OREGON II and 224' GORDON GUNTER	121 sea days trawling; plankton in conjunction with trawl surveys	720 trawl; 100 plankton and 530 environmental	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 CARETTA, and GANDY	101 sea days	400 trap/video camera; 60 ROV drops; environmental	Traps/video camera; ROV	Traps and longline-random stratified, 5 to 100 fm	Continuation	None
	Marine mammals (dolphins & whales)	Juveniles/adults	Gulf of Mexico/ Caribbean	Territorial; open ocean (EEZ); Puerto Rico to Virgin Islands	GORDON GUNTER	69 sea days	Approximately 750 sightings, 200 biopsies and environmental data at sightings	Visual with bigeye binoculars; cross bow, tagging	Mammals-line transect	Continuation	None
	All species with planktonic stages (primarily Bluefin, 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	832 plankton and 396 environmental	Bongo array w/ .333-mm mesh nets; 1x2-m neuston w/ .950-mm mesh nets	Plankton - systematic grid	Continuation	Spring and summer shelf spawners; summer, fall and winter open Gulf spawners
	Coastal Sharks; Red Snapper	Juveniles/sub-adults-adults	Southeast Atlantic and Gulf of Mexico	Territorial	OREGON II	60 sea days	300 longline and environmental	Monofilament bottom longline with 100 hooks per set, tagging sharks	Sharks/Snapper - random and statistical zone in South Atlantic and 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; reefs	Funding has been cut and may be further reduced next FY.	Billfishes; tunas; sharks

**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 STATIONS	TRAWLING, PLANKTON, TRAPS ETC.	SAMPLE STRATEGY FOR DATA COLLECTION	STATUS OF FISHERY-INDEPENDENT SURVEYS OVER NEXT 5 YEARS	SPECIES PRESENTLY UNABLE TO SAMPLE	
Galveston Lab (TX)	Penaeid shrimp; bottomfish; estuarine dependent spp.	Postlarvae-adults	Gulf of Mexico	Internal; (EEZ)	Ship support provided by Pascagoula Lab, Bay 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 turtles	Hatchlings-yearlings	Gulf of Mexico (release of tagged turtles)	Territorial; EEZ (Texas)	U.S. Coast Guard Cutter; R/V LONGHORN	2	1-2 releases/yr	Satellite; Geographic tracking	None	None	None	
						Varies	10-20 turtles		None	None	None	
	Sea turtles	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 turtles	Juveniles, Adults	TX, LA	Coastal shelf	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 grid	Continuation	None	
	Reef Fish/Groupers	Adults/larvae	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	Small boats	Variable	Variable	16' trawl/crab scrape; neuston/push net	systematic stations	Funding Dependent	None	
	Coral Restoration		Presently South Atlantic	<i>Oculina</i> banks	FERREL and OREGON II	Variable	Variable	Traps, ROV, Exp. Substrates	Onsite	Continuation	None	
Beaufort Lab (NMFS)	Reef fish snappers/groupers	Adults, juveniles	Tortugas Ecological Reserves	MPAs	Small boats, dive charters	6/yr	24	Visual census; splitbeam sonar	Spawning aggregation; random transects	Funding dependent	None of targeted	

**TABLE 2. SUMMARY OF INFORMATION PROVIDED BY STATE AGENCIES**

			TYPES OF FISHERY-INDEPENDENT SAMPLING			ANNUAL EFFORT DEVOTED TO FISHERY-INDEPENDENT SAMPLING BY ACTIVITY IN:		TYPES OF GEAR			
AGENCY	TARGET SPECIES	LIFE STAGES SAMPLED	AREA SAMPLED	GEOGRAPHIC AREAS OF IMPORTANCE	TYPES OF PLATFORMS	NUMBER OF DAYS	NUMBER OF 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	All estuarine fishes, groupers, snappers, blue crab, stone crab, spiny lobster, hard clams, scallops	All stages	FL waters & offshore	Internal; territorial; EEZ	Numerous 22'-26' outboards, 36' Bruno	Varies	Varies	40' SEAMAP trawl, 20' trawl, 600' seines, various size beach seines, gill nets, visual counts, underwater video, lobster & crab traps	Systematic, stratified random grid based, long-term station selection, short-term special studies	Continued inshore as currently completed, increase grouper and snapper sampling	Mackerel, cobia, amberjack
ALABAMA DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES	All penaeid shrimp; southern flounder; Gulf menhaden; red drum; blue crab; black drum; Spanish mackerel; striped mullet; spotted sea trout; oysters	Larvae-adults	AL marshes to territorial sea; EEZ	Intertidal; territorial; EEZ	22' Tiara, (2) 90-hp; 25' Parker (2), 150-hp; 27' Endurance, (2) 200-hp; 21' Buskins 150-hp; 23' gillnet boat, 150-hp; 65' R/V Alabama Discovery	80/yr	Varies	50' bag seine; 16' otter trawl; 40' SEAMAP trawl; variable mesh gill net; 6' beam plankton trawl; neuston; oyster dredge; vertical and bottom longline	Long-term station selection, 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	None
MISSISSIPPI DEPARTMENT OF MARINE RESOURCES	All penaeid shrimp; oysters; sciaenids; flounder; blue crabs	Juveniles-adults	MS territorial sea	Internal; territorial; EEZ	28' outboard; 18' outboard; 24' outboard; 65' oyster dredge boat; 35' outboard; 23' skiff; 22' outboard; 32' oyster vessel jet drive; 19' outboard 150-hp oyster; 24' outboard 150-hp oyster; 34' outboard 2 (250-hp) shrimp; 43' artificial reef vessel in-board engine	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 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 STATIONS	TRAWLING, PLANKTON, TRAPS, ETC.	SAMPLE STRATEGY FOR DATA COLLECTION	STATUS OF FISHERY-SURVEYS OVER NEXT 5 YEARS	SPECIES PRESENTLY UNABLE TO SAMPLE
LOUISIANA DEPARTMENT OF WILDLIFE & FISHERIES	All penaeid shrimp; blue crab; finfish; oysters	Larvae 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 21	Trawls: 6' (inshore); 16' (inshore); 16' (offshore); 40' (inshore); Hex Mesh Trap Finfish: Finfish: 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 1680/yr 960/yr 780/yr 1080/yr	600' bag seines; 20' trawl (inshore); 20' trawl (offshore); 600' gill nets; oyster dredge	Long-term stratified random stations, grid based	Continue effort on internal coastal waters; increase effort on territorial sea with emphasis on adult finfish	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			
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
<b>FLORIDA</b>											
FLORIDA STATE UNIVERSITY	Benthic infauna; epibenthic fishes & invertebrates	Larvae-adults	NE Gulf of Mexico	Internal; territorial	55-hp 25' skiffs; outboard	48/yr	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 140/yr 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 Atlantic	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 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 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 MIAMI	All species	All stages	Gulf; Caribbean; South Atlantic	Estuarine; offshore; inshore	Offshore: COLOMBUS ISELIN; inshore: CALANUS; estuarine: 25' I/O	240/yr; 200/yr; 150/yr	Varies; Varies; Varies	Hydroacoustics; Various plankton nets	Varies	More hydroacoustics	None

**TABLE 3. (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 STATIONS	TRAWLING, PLANKTON, TRAPS, ETC.	SAMPLE STRATEGY FOR DATA COLLECTION	STATUS OF FISHERY-INDEPENDENT SURVEYS OVER NEXT 5 YEARS	SPECIES PRESENTLY UNABLE TO SAMPLE
<b>ALABAMA</b>											
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 Gulf of Mexico; 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
<b>MISSISSIPPI</b>											
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; offshore 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; crab 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 pelagic fishes; bottom 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 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 STATIONS	TRAWLING, PLANKTON, TRAPS, ETC.	SAMPLE STRATEGY FOR DATA COLLECTION	STATUS OF FISHERY-INDEPENDENT SURVEYS OVER NEXT 5 YEARS	SPECIES PRESENTLY UNABLE TO SAMPLE
<b>LOUISIANA</b>											
UNIVERSITY OF NEW ORLEANS	Blue crab; oyster; marine commercial finfish	All stages	Lake Pontchartrain; Lake Borgne	Estuarine		Varies			Short-term special studies	Analyze commercial fish populations using electrophoresis; studies of oyster nutrition & parasitology	None
NICHOLLS STATE UNIVERSITY	Oysters	Post-Settlement (juvenile to adult)	Barataria Bay	Estuarine	24' bay boat	26-30 days (monthly 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 Pontchartrain; MS River mouth; Atchafalaya	Estuarine; territorial	Small skiffs; PELICAN; ACADIANA; oil & gas structures	Varies monthly	Varies	Drop BOX 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 & recruitment	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 continental shelf	Estuarine; coastal	116' 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 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 STATIONS	TRAWLING, PLANKTON, TRAPS, ETC.	SAMPLE STRATEGY FOR DATA COLLECTION	STATUS OF FISHERY-INDEPENDENT SURVEYS OVER NEXT 5 YEARS	SPECIES PRESENTLY UNABLE TO SAMPLE
<b>TEXAS</b>											
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-crustaceans & finfish	All stages	NW Gulf off LA & TX	Internal; 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; Small, bays only	Both short-term special, and long-term; diving fish counts	None	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 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 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; beaches	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', 23', 17', 16', and 14' boats/trailerable	150/yr	8 multi-disciplinary, annually; others as per project	12' otter trawl, 180' seine, 70' seine (FMRI/FIM standards)	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) 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; 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 2000; six summaries, June-July 2001; seven summaries, June-July 2002; seven summaries, June-July 2003, seven summaries, June-July 2004, seven summaries, June-July 2005; six summaries, June-July 2006, seven summaries, June-July 2007; six summaries, June-July 2008; six summaries, June-July 2009; seven summaries, June-July 2010; seven summaries, June-July 2011; and seven summaries, June-July 2012. 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. One summary in December 1998, January 2000, January 2001, and January 2002, of catch rate information on red snapper in the northern Gulf of Mexico indicating stations sampled and catch rates.
- 3) 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012 and 2013 SEAMAP Marine Directories: 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, February 2003, February 2004, February 2005, February 2006, February 2007, February 2008, February 2009, February 2010, February 2011, February 2012 and February 2013. 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.

## SEAMAP DOCUMENTS LIST, 1982 - CURRENT

- 6) SEAMAP-Gulf Operations Plan Executive Summary, March 1984. A summary of the features of the Operations Plan.
- 7) SEAMAP Environmental and Biological Atlases of the Gulf of Mexico, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009 and 2010. 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; February 2004; August 2008; July 2009; October 2009; March 2010; June 2010, August 2010, June 2011, November 2011 and August 2012. 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, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009 and 2010. 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, 1984 & 1985, 1986 Ichthyoplankton Atlases. 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 Reports of the Southeast Area Monitoring and Assessment Program, October 1985 - September 2011.  
  
Summaries of activities and proposed events for the SEAMAP-Gulf, SEAMAP-South Atlantic and SEAMAP-Caribbean components.
- 11) Data Management System Requirements Document for Gulf and South Atlantic, November 1986.
- 12) Data Management System Design Study for Gulf and South Atlantic, March 1987. A result of the system design study, this documents describes the high level design of the proposed system and presents a five year implementation plan.
- 13) SEAMAP Operations Manual for Collection of Data, May 1987; May 1990 (2<sup>nd</sup> revision); September 1993 (3<sup>rd</sup> revision); and April 2001 (4<sup>th</sup> revision). A manual presenting the procedures to be followed by all vessels that participate in SEAMAP surveys.

## SEAMAP DOCUMENTS LIST, 1982 - CURRENT

- 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.
- 15) Southeast Area Monitoring and Assessment Program (SEAMAP) SEAMAP Management Plan: 1996-2000. An overview of the program achievements, information dissemination, goals and objectives, program operations, and potential future activities for the SEAMAP Program.
- 16) Southeast Area Monitoring and Assessment Program (SEAMAP) Management Plan: 2001-2005, August 2001. A detailed description of the SEAMAP program which outlines the program goals, objectives and management policies and procedures.
- 17) Southeast Area Monitoring and Assessment Program (SEAMAP) Management Plan: 2006-2010, September 2007. A detailed description of the SEAMAP program which outlines the program goals, objectives and management policies and procedures.
- 18) Southeast Area Monitoring and Assessment Program (SEAMAP) Management Plan: 2011-2015, October 2011. A detailed description of the SEAMAP program which outlines the program goals, objectives and management policies and procedures.
- 19) Proceedings: Reef Fish Workshop for SEAMAP, 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.
- 20) Proceedings: General Session Concerning the Uses of Fishery-Independent Data for Fisheries Management, October 1996, No. 35. Summary of presentations presented at the 46<sup>th</sup> Annual Fall Meeting of the Gulf States Marine Fisheries Commission regarding the value of fishery-independent 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).



**Gulf States Marine Fisheries Commission**  
**2404 Government Street**  
**Ocean Springs, Mississippi, 39564**  
**[www.gsmfc.org](http://www.gsmfc.org)**