

Sea Grant

Projects '97

U.S. DEPARTMENT OF COMMERCE

National Oceanic and Atmospheric Administration

National Sea Grant College Program

December 1998

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NSGO-Q-97-002

15099 THE NATIONAL SEA GRANT COLLEGE PROGRAM

THE PROGRAM

SEA GRANT is a partnership of academia, government, and industry focusing on coastal and marine resources. It operates through a university-based network to meet environmental and economic needs.

THE MISSION

SEA GRANT conducts Research, Education and Outreach to use and conserve coastal and marine resources for a sustainable economy and environment.

Introduction

Projects '97 lists all projects supported by the National Sea Grant College Program during Fiscal Year 1997 (October 1, 1996 – September 30, 1997). The report is divided into five parts. Sections One through Three summarize project funding by: Sea Grant program; categories derived from *Sea Grant's Network Plan: 1995 – 2005*; and category and program combined.

Section Four lists individual projects by categories that are consistent with the network plan. In addition, provided with each project are project number, title, investigator, program affiliation, and amount of Sea Grant federal and matching funds as well as pass through funds, which come from agencies outside of Sea Grant.

The Fifth Section contains an analysis, in table form, of the distribution of Sea Grant program funding according to the goals of the NOAA strategic plan.

The number of projects supported during Fiscal Year 1997 was 811. Almost all of these projects were conducted through the core of 29 Sea Grant programs which draw upon a wide network of universities and other marine organizations throughout the nation. Sea Grant program directors are listed on the following page.

Sea Grant directors shape programs to use the strengths of participating institutions, to focus on regional and national issues, and to address priorities set by *Sea Grant's Network Plan* for research, education and training, and outreach services. Decentralized, day-to-day management encourages effective cooperation in marine affairs among academic institutions and federal, state, and local governments. The research programs, while normally dealing with local, state, or regional topics, produce results of generic importance that advance science, solve problems, and seize opportunities for the wise use and development of the nation's marine, coastal and Great Lakes resources. A review of this report shows the breadth of Sea Grant's involvement in the marine sciences from aquaculture and marine biotechnology to coastal water quality and safety at sea.

Sea Grant Program Directors

ALASKA

Mr. Ronald K. Dearborn, Director
*Alaska Sea Grant
University of Alaska
P.O. Box 755040
Fairbanks, AK 99775-5040
907/474-7086

CALIFORNIA

Dr. James J. Sullivan, Director
*California Sea Grant College
System
University of California
9500 Gilman Drive
La Jolla, CA 92093
619/534-4440

Dr. Douglas Sherman, Director
+University of Southern
California Sea Grant
Hancock Institute for Marine Studies
University Park
Los Angeles, CA 90089
213/740-1961

CONNECTICUT

Dr. Edward Monahan, Director
*Connecticut Sea Grant
University of Connecticut
1084 Shennecossett Road
Groton, CT 06340
860/405-9128

DELAWARE

Dr. Carolyn Thoroughgood, Director
*Delaware Sea Grant
University of Delaware
Robinson Hall, Room 111
Newark, DE 19716
302/831-2841

FLORIDA

Dr. James Cato, Director
*Florida Sea Grant
University of Florida
Building 803
Gainesville, FL 32611
352/392-5870

GEORGIA

Dr. Mac Rawson, Director
*Georgia Sea Grant
University of Georgia
Marine Sciences Building
Room 220
Athens, GA 30602
706/542-6009

HAWAII

Dr. Charles Helsley, Director
*Hawaii Sea Grant
University of Hawaii
1000 Pope Road, Room 220
Honolulu, HI 96822
808/956-7031

ILLINOIS-INDIANA

Dr. Phillip Pope, Director
*Illinois-Indiana Sea Grant
Purdue University
1159 Forestry Building
West Lafayette, IN 47907-1159
765/494-3593

LOUISIANA

Dr. Jack Van Lopik, Director
*Louisiana Sea Grant
Louisiana State University
128 Wetland Resources
Baton Rouge, LA 70803-7507
504/388-6710

MAINE

Dr. Ian Davison, Director
*ME-NH Sea Grant
University of Maine
14 Coburn Hall
Orono, ME 04469-0114
207/581-1436

MARYLAND

Dr. Christopher D'Elia, Director
*Maryland Sea Grant
University of Maryland
0112 Skinner Hall
College Park, MD 20742
301/405-6371

MASSACHUSETTS

Dr. Chrys Chrysostomidis, Director
*MIT Sea Grant
Massachusetts Institute of Technology
Bldg. E38, Room 330
77 Massachusetts Avenue
Cambridge, MA 02139
617/253-7131

Dr. Judith McDowell, Director
+WHOI Sea Grant
Woods Hole Oceanographic Institution
CRL 209
Woods Hole, MA 02543
508/289-2557

MICHIGAN

Dr. Russell Moll, Director
*Michigan Sea Grant
University of Michigan
4107 I.S.T. Building
2200 Bonisteel Boulevard
Ann Arbor, MI 48109-2099
313/763-1437

MINNESOTA

Mr. Jeffrey Gunderson, Actg. Director
*Minnesota Sea Grant
University of Minnesota
2305 East 5th Street
Duluth, MN 55812
218/726-8106

MISSISSIPPI-ALABAMA

Dr. Barrie Costa-Pierce, Director
*MS-AL Sea Grant Consortium
P.O. Box 7000
Ocean Springs, MS 39564-7000
228/875-9341

NEW HAMPSHIRE

Dr. Ann Bucklin, Director
*ME-NH Sea Grant
University of New Hampshire
Ocean Process Analysis Lab.
142 Morse Hall
Durham, NH 03824
603/862-3505

NEW JERSEY

Dr. Michael Weinstein, Director
*New Jersey Sea Grant
NJ Marine Sciences Consortium
Building No. 22
Ft. Hancock, NJ 07732
908/872-1300 ext. 12

NEW YORK

Dr. Jack Mattice, Director
*New York Sea Grant Institute
State University of New York
121 Discovery Hall
Stony Brook, NY 11794-5001
516/632-6905

NORTH CAROLINA

Dr. Ronald G. Hodson, Director
*North Carolina Sea Grant
North Carolina State University
Box 8605
Raleigh, NC 27695-8605
919/515-2454

OHIO

Dr. Jeffrey Reutter, Director
*Ohio Sea Grant
Ohio State University
1541 Research Center
1314 Kinnear Road
Columbus, OH 43212
614/292-8949

OREGON

Dr. Robert Malouf, Director
*Oregon Sea Grant
Oregon State University
Administrative Services, A500G
Corvallis, OR 97331-2131
541/737-3396

PUERTO RICO

Dr. Manuel Valdes-Pizzini, Director
*Puerto Rico Sea Grant
University of Puerto Rico
Department of Marine Science
P.O. Box 9011
Mayaguez, PR 00681-9011
787/832-3585

RHODE ISLAND

Dr. Scott Nixon, Director
*Rhode Island Sea Grant
University of Rhode Island
Marine Resources Bldg.
Narragansett Bay Campus
Narragansett, RI 02882-1197
401/874-6800

SOUTH CAROLINA

Mr. Rick Devoe, Director
*South Carolina Sea Grant Consor-
tium
287 Meeting Street
Charleston, SC 29401
803/727-2078

TEXAS

Dr. Robert Stickney, Director
*Texas Sea Grant
Texas A&M University
1716 Briarcrest Drive, Suite 702
Bryan, TX 77802
409/845-3854

VIRGINIA

Dr. William Rickards, Director
*Virginia Sea Grant
Virginia Graduate Marine
Science Consortium
Madison House
170 Rugby Road
Charlottesville, VA 22903
804/924-5965

WASHINGTON

Mr. Louie Echols, Director
*Washington Sea Grant
University of Washington, HG-30
3716 Brooklyn Avenue, N.E.
Seattle, WA 98105-6716
206/543-6600

WISCONSIN

Dr. Anders Andren, Director
*Wisconsin Sea Grant
University of Wisconsin-Madison
1800 University Avenue
Madison, WI 53705
608/262-0905

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**Sections One to Three:
Project Funding Summaries**

1997 PROJECT FUNDING SUMMARY BY PROGRAM

1-1

Program	Project #	Sea Grant	PassThru	*Federal	Matching	**Total
ALASKA	18	1,518,905	388,900	1,907,805	1,277,217	3,185,022
CALIFORNIA	52	4,220,032	199,521	4,419,553	2,151,103	6,570,656
CONNECTICUT	14	869,897	0	869,897	455,255	1,325,152
DELAWARE	27	1,444,858	40,000	1,484,858	1,265,600	2,750,458
FLORIDA	27	2,074,645	258,633	2,333,278	1,021,276	3,354,554
GEORGIA	24	1,258,646	21,000	1,279,646	721,802	2,001,448
HAWAII	35	1,762,000	264,000	2,026,000	1,108,004	3,134,004
ILLINOIS/INDIANA	19	1,259,473	0	1,259,473	696,188	1,955,661
LOUISIANA	31	1,744,044	182,000	1,926,044	1,228,911	3,154,955
MAINE/NEW HAMPSHIRE	28	1,846,000	446,089	2,292,089	1,052,616	3,344,705
MARYLAND	37	2,418,862	2,480,721	4,899,583	1,584,279	6,483,862
MASSACHUSETTS INST. OF TECH.	27	2,099,324	175,000	2,274,324	1,885,527	4,159,851
MICHIGAN	18	1,757,472	36,000	1,793,472	1,177,163	2,970,635
MINNESOTA	21	1,053,908	0	1,053,908	560,962	1,614,870
MISSISSIPPI/ALABAMA	24	1,391,242	407,941	1,799,183	1,006,490	2,805,673
NEW JERSEY	18	1,069,708	35,000	1,104,708	733,770	1,838,478
NEW YORK	32	2,582,489	500,547	3,083,036	1,328,023	4,411,059
NORTH CAROLINA	34	1,811,375	111,293	1,922,668	897,469	2,820,137
OHIO	26	1,176,788	0	1,176,788	878,092	2,054,880
OREGON	27	2,039,209	0	2,039,209	1,503,349	3,542,558
PUERTO RICO	20	799,695	36,000	835,695	616,527	1,452,222
RHODE ISLAND	39	2,315,055	531,429	2,846,484	1,133,786	3,980,270
SOUTH CAROLINA	28	1,630,911	1,445,986	3,076,897	1,071,359	4,148,256
TEXAS	30	1,882,745	217,317	2,100,062	990,721	3,090,783
UNIV. OF SOUTHERN CALIFORNIA	14	882,865	0	882,865	464,783	1,347,648
VIRGINIA	25	1,773,920	343,728	2,117,648	949,527	3,067,175
WASHINGTON	35	2,769,565	1,079,221	3,848,786	1,519,615	5,368,401
WISCONSIN	28	1,804,700	72,000	1,876,700	1,600,000	3,476,700
WOODS HOLE OCEANOGRAPHIC INST.	20	980,000	362,218	1,342,218	493,632	1,835,850
INDEPENDENT/OTHER	33	1,859,261	658,517	2,517,778	306,340	2,824,118
Grand Total:	811	52,097,594	10,293,061	62,390,655	31,679,386	94,070,041

* : Sea Grant + PassThru

** : Federal + Matching

1997 PROJECT FUNDING SUMMARY BY CATEGORY

2-1

<u>Project Categories</u>	<u>Project #</u>	<u>Sea Grant</u>	<u>PassThru</u>	<u>Federal</u>	<u>Matching</u>	<u>Total</u>
I. ECONOMIC LEADERSHIP						
<u>A. Advanced Technology for Commercial Products and Processes</u>						
10 - COMMERCIAL BIOTECHNOLOGY						
11 - MOLECULAR GENETICS	6	254,447	0	254,447	146,132	400,579
12 - NATURAL PRODUCTS: CHEMISTRY AND BIOLOGICAL ACTIVITY	30	1,856,389	0	1,856,389	1,045,406	2,901,795
13 - BIOPROCESSING, BIOREACTION, CELL AND TISSUE CULTURE	5	213,461	0	213,461	114,527	327,988
Subtotal:	41	2,324,297	0	2,324,297	1,306,065	3,630,362
20 - ENVIRONMENTAL TECHNOLOGY						
21 - ENHANCEMENT OF ENVIRONMENTAL MONITORING AND ASSESSMENT	35	1,693,542	533,063	2,226,605	1,368,047	3,594,652
22 - POLLUTION CONTROL AND PREVENTION	1	9,060	0	9,060	33,516	42,576
23 - REMEDIATION	5	260,303	0	260,303	148,727	409,030
Subtotal:	41	1,962,905	533,063	2,495,968	1,550,290	4,046,258
Total:	82	4,287,202	533,063	4,820,265	2,856,355	7,676,620

1997 PROJECT FUNDING SUMMARY BY CATEGORY

2-2

Project Categories	Project #	Sea Grant	PassThru	Federal	Matching	Total
<u>B. Seafood Production</u>						
30 - REVITALIZE THE NATION'S COMMERCIAL FISHERIES						
31 - ECOSYSTEM-BASED MANAGEMENT	86	2,545,991	1,953,761	4,499,752	1,745,078	6,244,830
32 - ANTICIPATING SOCIAL AND ECONOMIC IMPACTS	17	730,578	0	730,578	410,890	1,141,468
33 - MINIMIZING BYCATCH	8	264,892	98,443	363,335	181,253	544,588
34 - ENHANCING WILD STOCKS THROUGH AQUACULTURE	3	106,558	0	106,558	51,931	158,489
Subtotal:	114	3,648,019	2,052,204	5,700,223	2,389,152	8,089,375
40 - DEVELOP SUSTAINABLE U.S. AQUACULTURE						
41 - ADMINISTRATION AND COORDINATION	1	59,520	0	59,520	0	59,520
42 - DEVELOPING AND IMPROVING GROW-OUT SYSTEMS	31	1,840,691	264,000	2,104,691	635,290	2,739,981
43 - IMPROVING HUSBANDRY	35	2,119,779	330,000	2,449,779	1,226,438	3,676,217
44 - ENHANCING AQUACULTURE THROUGH BIOTECHNOLOGY	29	1,322,886	0	1,322,886	816,123	2,139,009
Subtotal:	96	5,342,876	594,000	5,936,876	2,677,851	8,614,727
50 - ENHANCE COMPETITIVENESS THROUGH ADVANCES IN SEAFOOD TECHNOLOGY						
51 - PRODUCT QUALITY AND SAFETY	11	468,658	0	468,658	179,090	647,748
52 - PROCESSING TECHNOLOGY AND PRACTICES	7	123,609	0	123,609	102,110	225,719
53 - WASTE MANAGEMENT AND BYPRODUCT RECOVERY	2	23,516	0	23,516	10,954	34,470
54 - PRODUCT DEVELOPMENT	1	29,402	0	29,402	11,213	40,615
Subtotal:	21	645,185	0	645,185	303,367	948,552
Total:	231	9,636,080	2,646,204	12,282,284	5,370,370	17,652,654

1997 PROJECT FUNDING SUMMARY BY CATEGORY

2-3

Project Categories	Project #	Sea Grant	PassThru	Federal	Matching	Total
<u>C. Coastal Economic Development</u>						
60 - COASTAL BUSINESS DEVELOPMENT						
61 - FISHING INDUSTRIES	3	86,771	0	86,771	26,815	113,586
62 - COASTAL RECREATION BUSINESS	3	41,136	50,000	91,136	0	91,136
63 - MARINE TRADES INDUSTRY	4	202,756	69,294	272,050	172,984	445,034
Subtotal:	10	330,663	119,294	449,957	199,799	649,756
70 - COASTAL COMMUNITY DEVELOPMENT						
71 - COASTAL TOURISM DEVELOPMENT	5	227,960	0	227,960	106,055	334,015
72 - COMMUNITIES IN TRANSITION	3	107,872	0	107,872	65,655	173,527
73 - COASTAL AND WATERFRONT REDEVELOPMENT	1	0	55,824	55,824	0	55,824
74 - PORTS AND HARBORS	2	50,203	125,000	175,203	25,048	200,251
75 - PLANNING AND DECISION-MAKING INFORMATION	3	134,157	0	134,157	192,172	326,329
Subtotal:	14	520,192	180,824	701,016	388,930	1,089,946
80 - REVITALIZING MARINE INFRASTRUCTURE						
81 - INSPECTION AND CONDITION SURVEYS	0	0	0	0	0	0
82 - ENVIRONMENTAL AND OPERATIONAL LOADINGS	0	0	0	0	0	0
83 - STRUCTURE PERFORMANCE ASSESSMENTS	1	0	0	0	0	0
84 - REHABILITATION, REPAIR, AND RECYCLING PROCEDURES	3	98,169	0	98,169	50,168	148,337
Subtotal:	4	98,169	0	98,169	50,168	148,337
Total:	28	949,024	300,118	1,249,142	638,897	1,888,039
I. TOTAL:	341	14,872,306	3,479,385	18,351,691	8,865,622	27,217,313

1997 PROJECT FUNDING SUMMARY BY CATEGORY

2-4

Project Categories	Project #	Sea Grant	PassThru	Federal	Matching	Total
II. COASTAL ECOSYSTEM HEALTH AND PUBLIC SAFETY						
<u>A. Coastal Ecosystem Health</u>						
90 - COASTAL AND GREAT LAKES WATER QUALITY						
91 - TOXICS	38	1,474,669	971,000	2,445,669	1,095,507	3,541,176
92 - BIOLOGICAL CONTAMINANTS	5	238,198	0	238,198	145,326	383,524
93 - NUTRIENTS	23	1,081,886	126,737	1,208,623	595,228	1,803,851
94 - SEDIMENTATION	5	190,341	97,339	287,680	180,793	468,473
95 - BIOTOXINS/HARMFUL ALGAL BLOOMS	28	383,750	1,361,896	1,745,646	322,743	2,068,389
96 - NONPOINT SOURCE POLLUTION	10	317,053	75,000	392,053	202,892	594,945
97 - CHEMICAL AND OIL SPILLS	0	0	0	0	0	0
Subtotal:	109	3,685,897	2,631,972	6,317,869	2,542,489	8,860,358
100 - COASTAL AND GREAT LAKES HABITATS						
101 - HABITAT STRUCTURE AND FUNCTION	31	1,371,244	1,168,184	2,539,428	1,013,992	3,553,420
102 - HABITAT RESTORATION	6	274,424	0	274,424	413,644	688,068
103 - AQUATIC NUISANCE SPECIES	61	4,159,690	0	4,159,690	2,310,179	6,469,869
104 - COASTAL AND GREAT LAKES HABITATS: CUMULATIVE IMPACTS	4	166,658	1,498,750	1,665,408	76,961	1,742,369
Subtotal:	102	5,972,016	2,666,934	8,638,950	3,814,776	12,453,726
110 - SUSTAINABLE DEVELOPMENT						
111 - SOCIOECONOMIC DIMENSIONS OF ENVIRONMENTAL CHANGE	2	0	85,000	85,000	26,177	111,177
112 - COASTAL MANAGEMENT POLICY TOOLS	2	19,479	32,000	51,479	50,918	102,397
113 - MULTIPLE USE MANAGEMENT AND CONFLICT RESOLUTION	5	189,097	0	189,097	159,383	348,480
114 - WATER AVAILABILITY	0	0	0	0	0	0
115 - CUMULATIVE IMPACTS	1	39,300	0	39,300	21,231	60,531
Subtotal:	10	247,876	117,000	364,876	257,709	622,585
Total:	221	9,905,789	5,415,906	15,321,695	6,614,974	21,936,669

1997 PROJECT FUNDING SUMMARY BY CATEGORY

2-5

Project Categories	Project #	Sea Grant	PassThru	Federal	Matching	Total
<u>B. Public Safety</u>						
120 - COASTAL AND NATURAL HAZARDS						
121 - SEVERE STORMS	1	18,000	0	18,000	0	18,000
122 - EARTHQUAKES AND TSUNAMIS	2	69,564	0	69,564	16,412	85,976
123 - COASTAL PLANNING AND BUILDING CONSTRUCTION TECHNIQUES	5	33,911	165,068	198,979	75,460	274,439
124 - SHORELINE PROCESSES AND EROSION	17	545,342	254,100	799,442	534,275	1,333,717
Subtotal:	25	666,817	419,168	1,085,985	626,147	1,712,132
130 - SAFETY AT SEA						
131 - VESSEL STABILITY RESEARCH	1	142,528	0	142,528	76,603	219,131
132 - EQUIPMENT DESIGN AND TESTING	0	0	0	0	0	0
133 - SURVIVAL AND SAFETY TRAINING	0	0	0	0	0	0
134 - RECREATIONAL AND COMMERCIAL DIVING	2	77,127	0	77,127	67,783	144,910
Subtotal:	3	219,655	0	219,655	144,386	364,041
Total:	28	886,472	419,168	1,305,640	770,533	2,076,173
II. TOTAL:	249	10,792,261	5,835,074	16,627,335	7,385,507	24,012,842

1997 PROJECT FUNDING SUMMARY BY CATEGORY

2-6

<u>Project Categories</u>	<u>Project #</u>	<u>Sea Grant</u>	<u>PassThru</u>	<u>Federal</u>	<u>Matching</u>	<u>Total</u>
III. EDUCATION AND HUMAN RESOURCES						
A. EDUCATION						
140 - EDUCATION						
141 - EDUCATION: PRE-COLLEGE	17	508,062	146,602	654,664	363,875	1,018,539
142 - EDUCATION: UNIVERSITY	44	2,721,220	683,000	3,404,220	825,205	4,229,425
143 - EDUCATION: INFORMAL	5	215,769	50,000	265,769	139,264	405,033
Subtotal:	66	3,445,051	879,602	4,324,653	1,328,344	5,652,997
Total:	66	3,445,051	879,602	4,324,653	1,328,344	5,652,997
B. Marine Advisory Service						
150 - MARINE ADVISORY SERVICE						
151 - MARINE ADVISORY SERVICE: CORE	36	10,221,495	0	10,221,495	7,333,835	17,555,330
152 - MARINE ADVISORY SERVICE: SPECIAL PROJECTS	5	142,941	99,000	241,941	115,872	357,813
Subtotal:	41	10,364,436	99,000	10,463,436	7,449,707	17,913,143
Total:	41	10,364,436	99,000	10,463,436	7,449,707	17,913,143
C. Communications						
160 - COMMUNICATIONS						
161 - COMMUNICATIONS: CORE	30	4,228,382	0	4,228,382	2,134,210	6,362,592
162 - COMMUNICATIONS: SPECIAL PROJECTS	8	517,036	0	517,036	162,905	679,941
Subtotal:	38	4,745,418	0	4,745,418	2,297,115	7,042,533
Total:	38	4,745,418	0	4,745,418	2,297,115	7,042,533
III. TOTAL:	145	18,554,905	978,602	19,533,507	11,075,166	30,608,673

1997 PROJECT FUNDING SUMMARY BY CATEGORY

2-7

<u>Project Categories</u>	<u>Project #</u>	<u>Sea Grant</u>	<u>PassThru</u>	<u>Federal</u>	<u>Matching</u>	<u>Total</u>
IV. PROGRAM MANAGEMENT						
<u>A. Program Administration</u>						
170 - PROGRAM ADMINISTRATION						
Subtotal:	35	4,198,716	0	4,198,716	3,504,995	7,703,711
Total:	35	4,198,716	0	4,198,716	3,504,995	7,703,711
<u>B. Program Development</u>						
180 - PROGRAM DEVELOPMENT						
Subtotal:	39	3,627,366	0	3,627,366	804,873	4,432,239
Total:	39	3,627,366	0	3,627,366	804,873	4,432,239
IV. TOTAL:	74	7,826,082	0	7,826,082	4,309,868	12,135,950
V. OTHER						
190 - OTHER						
Subtotal:	2	52,040	0	52,040	43,223	95,263
Grand Total:	811	52,097,594	10,293,061	62,390,655	31,679,386	94,070,041

1997 PROJECT FUNDING SUMMARY BY CATEGORY & PROGRAM

Category: 10 - COMMERCIAL BIOTECHNOLOGY

3-1

Program	Project #	Sea Grant	PassThru	Federal	Matching	Total
ALASKA	0	0	0	0	0	0
CALIFORNIA	10	603,690	0	603,690	335,408	939,098
CONNECTICUT	0	0	0	0	0	0
DELAWARE	3	115,135	0	115,135	80,170	195,305
FLORIDA	1	54,335	0	54,335	27,032	81,367
GEORGIA	0	0	0	0	0	0
HAWAII	4	135,736	0	135,736	137,019	272,755
ILLINOIS/INDIANA	0	0	0	0	0	0
LOUISIANA	0	0	0	0	0	0
MAINE/NEW HAMPSHIRE	0	0	0	0	0	0
MARYLAND	1	110,250	0	110,250	55,126	165,376
MASSACHUSETTS INST. OF TECH.	0	0	0	0	0	0
MICHIGAN	0	0	0	0	0	0
MINNESOTA	0	0	0	0	0	0
MISSISSIPPI/ALABAMA	4	184,960	0	184,960	137,642	322,602
NEW JERSEY	0	0	0	0	0	0
NEW YORK	1	187,747	0	187,747	102,618	290,365
NORTH CAROLINA	0	0	0	0	0	0
OHIO	0	0	0	0	0	0
OREGON	3	103,552	0	103,552	32,295	135,847
PUERTO RICO	0	0	0	0	0	0
RHODE ISLAND	0	0	0	0	0	0
SOUTH CAROLINA	2	139,771	0	139,771	101,014	240,785
TEXAS	1	35,000	0	35,000	24,650	59,650
UNIV. OF SOUTHERN CALIFORNIA	0	0	0	0	0	0
VIRGINIA	0	0	0	0	0	0
WASHINGTON	5	254,100	0	254,100	144,363	398,463
WISCONSIN	1	117,944	0	117,944	0	117,944
WOODS HOLE OCEANOGRAPHIC INST.	2	86,628	0	86,628	53,346	139,974
INDEPENDENT/OTHER	3	195,449	0	195,449	75,382	270,831
Grand Total:	41	2,324,297	0	2,324,297	1,306,065	3,630,362

Category: 20 - ENVIRONMENTAL TECHNOLOGY

3-2

Program	Project #	Sea Grant	PassThru	Federal	Matching	Total
ALASKA	0	0	0	0	0	0
CALIFORNIA	1	65,220	0	65,220	57,127	122,347
CONNECTICUT	1	37,170	0	37,170	20,798	57,968
DELAWARE	1	9,060	0	9,060	33,516	42,576
FLORIDA	1	0	28,633	28,633	0	28,633
GEORGIA	3	63,518	0	63,518	17,391	80,909
HAWAII	3	84,112	0	84,112	121,390	205,502
ILLINOIS/INDIANA	1	34,883	0	34,883	20,760	55,643
LOUISIANA	1	49,999	0	49,999	46,643	96,642
MAINE/NEW HAMPSHIRE	0	0	0	0	0	0
MARYLAND	5	124,931	311,489	436,420	137,419	573,839
MASSACHUSETTS INST. OF TECH.	6	561,500	0	561,500	499,313	1,060,813
MICHIGAN	0	0	0	0	0	0
MINNESOTA	0	0	0	0	0	0
MISSISSIPPI/ALABAMA	2	46,324	37,941	84,265	65,154	149,419
NEW JERSEY	0	0	0	0	0	0
NEW YORK	0	0	0	0	0	0
NORTH CAROLINA	1	135,406	0	135,406	72,120	207,526
OHIO	0	0	0	0	0	0
OREGON	0	0	0	0	0	0
PUERTO RICO	0	0	0	0	0	0
RHODE ISLAND	1	53,968	0	53,968	13,015	66,983
SOUTH CAROLINA	3	138,031	50,000	188,031	71,863	259,894
TEXAS	3	159,503	0	159,503	86,729	246,232
UNIV. OF SOUTHERN CALIFORNIA	0	0	0	0	0	0
VIRGINIA	0	0	0	0	0	0
WASHINGTON	4	249,870	0	249,870	177,800	427,670
WISCONSIN	1	47,863	0	47,863	29,635	77,498
WOODS HOLE OCEANOGRAPHIC INST.	1	51,552	0	51,552	26,393	77,945
INDEPENDENT/OTHER	2	49,995	105,000	154,995	53,224	208,219
Grand Total:	41	1,962,905	533,063	2,495,968	1,550,290	4,046,258

Category: 30 - REVITALIZE THE NATION'S COMMERCIAL FISHERIES

3-3

Program	Project #	Sea Grant	PassThru	Federal	Matching	Total
ALASKA	7	355,197	388,900	744,097	30,133	774,230
CALIFORNIA	8	301,349	54,364	355,713	204,546	560,259
CONNECTICUT	1	61,745	0	61,745	32,029	93,774
DELAWARE	5	72,324	0	72,324	213,500	285,824
FLORIDA	6	271,826	0	271,826	170,527	442,353
GEORGIA	3	62,422	21,000	83,422	57,515	140,937
HAWAII	3	68,990	0	68,990	136,876	205,866
ILLINOIS/INDIANA	0	0	0	0	0	0
LOUISIANA	1	51,020	0	51,020	18,874	69,894
MAINE/NEW HAMPSHIRE	9	364,353	153,743	518,096	159,512	677,608
MARYLAND	0	0	0	0	0	0
MASSACHUSETTS INST. OF TECH.	0	0	0	0	0	0
MICHIGAN	2	210,633	0	210,633	145,705	356,338
MINNESOTA	1	6,146	0	6,146	18,800	24,946
MISSISSIPPI/ALABAMA	1	28,985	0	28,985	18,905	47,890
NEW JERSEY	2	84,249	0	84,249	55,842	140,091
NEW YORK	4	258,765	0	258,765	165,007	423,772
NORTH CAROLINA	12	101,617	75,293	176,910	113,414	290,324
OHIO	1	0	0	0	0	0
OREGON	6	168,692	0	168,692	72,377	241,069
PUERTO RICO	4	111,423	0	111,423	113,911	225,334
RHODE ISLAND	10	164,402	229,067	393,469	99,863	493,332
SOUTH CAROLINA	1	49,137	0	49,137	18,786	67,923
TEXAS	4	120,921	58,129	179,050	52,042	231,092
UNIV. OF SOUTHERN CALIFORNIA	0	0	0	0	0	0
VIRGINIA	6	187,141	7,210	194,351	114,077	308,428
WASHINGTON	7	198,600	963,221	1,161,821	135,351	1,297,172
WISCONSIN	3	140,535	0	140,535	126,401	266,936
WOODS HOLE OCEANOGRAPHIC INST.	7	207,547	101,277	308,824	115,159	423,983
INDEPENDENT/OTHER	0	0	0	0	0	0
Grand Total:	114	3,648,019	2,052,204	5,700,223	2,389,152	8,089,375

Program	Project #	Sea Grant	PassThru	Federal	Matching	Total
ALASKA	0	0	0	0	0	0
CALIFORNIA	4	82,323	0	82,323	49,422	131,745
CONNECTICUT	1	74,388	0	74,388	44,768	119,156
DELAWARE	2	143,059	0	143,059	32,583	175,642
FLORIDA	1	71,369	0	71,369	40,317	111,686
GEORGIA	2	0	0	0	0	0
HAWAII	6	174,704	264,000	438,704	112,102	550,806
ILLINOIS/INDIANA	0	0	0	0	0	0
LOUISIANA	6	376,721	0	376,721	149,061	525,782
MAINE/NEW HAMPSHIRE	6	333,407	0	333,407	153,508	486,915
MARYLAND	10	770,714	0	770,714	365,325	1,136,039
MASSACHUSETTS INST. OF TECH.	4	201,023	0	201,023	172,761	373,784
MICHIGAN	0	0	0	0	0	0
MINNESOTA	1	12,230	0	12,230	18,392	30,622
MISSISSIPPI/ALABAMA	3	99,496	330,000	429,496	115,994	545,490
NEW JERSEY	3	92,913	0	92,913	57,441	150,354
NEW YORK	2	159,231	0	159,231	100,653	259,884
NORTH CAROLINA	3	139,818	0	139,818	26,582	166,400
OHIO	1	35,663	0	35,663	36,405	72,068
OREGON	3	86,732	0	86,732	59,980	146,712
PUERTO RICO	0	0	0	0	0	0
RHODE ISLAND	5	198,578	0	198,578	103,232	301,810
SOUTH CAROLINA	4	337,964	0	337,964	228,828	566,792
TEXAS	5	127,582	0	127,582	93,889	221,471
UNIV. OF SOUTHERN CALIFORNIA	0	0	0	0	0	0
VIRGINIA	6	398,173	0	398,173	257,685	655,858
WASHINGTON	4	247,912	0	247,912	128,187	376,099
WISCONSIN	3	201,090	0	201,090	155,678	356,768
WOODS HOLE OCEANOGRAPHIC INST.	1	59,910	0	59,910	41,678	101,588
INDEPENDENT/OTHER	10	917,876	0	917,876	133,380	1,051,256
Grand Total:	96	5,342,876	594,000	5,936,876	2,677,851	8,614,727

Category: 50 - ENHANCE COMPETITIVENESS THROUGH ADVANCES IN SEAFOOD TECHNOLOGY

3-5

Program	Project #	Sea Grant	PassThru	Federal	Matching	Total
ALASKA	1	29,402	0	29,402	11,213	40,615
CALIFORNIA	0	0	0	0	0	0
CONNECTICUT	0	0	0	0	0	0
DELAWARE	0	0	0	0	0	0
FLORIDA	1	99,750	0	99,750	0	99,750
GEORGIA	1	21,049	0	21,049	33,535	54,584
HAWAII	0	0	0	0	0	0
ILLINOIS/INDIANA	0	0	0	0	0	0
LOUISIANA	3	63,313	0	63,313	42,207	105,520
MAINE/NEW HAMPSHIRE	0	0	0	0	0	0
MARYLAND	0	0	0	0	0	0
MASSACHUSETTS INST. OF TECH.	0	0	0	0	0	0
MICHIGAN	0	0	0	0	0	0
MINNESOTA	0	0	0	0	0	0
MISSISSIPPI/ALABAMA	2	92,183	0	92,183	48,055	140,238
NEW JERSEY	0	0	0	0	0	0
NEW YORK	0	0	0	0	0	0
NORTH CAROLINA	3	13,557	0	13,557	66,562	80,119
OHIO	0	0	0	0	0	0
OREGON	4	62,645	0	62,645	44,491	107,136
PUERTO RICO	1	23,516	0	23,516	10,954	34,470
RHODE ISLAND	0	0	0	0	0	0
SOUTH CAROLINA	0	0	0	0	0	0
TEXAS	0	0	0	0	0	0
UNIV. OF SOUTHERN CALIFORNIA	0	0	0	0	0	0
VIRGINIA	2	87,190	0	87,190	46,350	133,540
WASHINGTON	0	0	0	0	0	0
WISCONSIN	0	0	0	0	0	0
WOODS HOLE OCEANOGRAPHIC INST.	0	0	0	0	0	0
INDEPENDENT/OTHER	3	152,580	0	152,580	0	152,580
Grand Total:	21	645,185	0	645,185	303,367	948,552

Category: 60 - COASTAL BUSINESS DEVELOPMENT

3-6

Program	Project #	Sea Grant	PassThru	Federal	Matching	Total
ALASKA	1	51,021	0	51,021	5,415	56,436
CALIFORNIA	1	0	0	0	0	0
CONNECTICUT	0	0	0	0	0	0
DELAWARE	0	0	0	0	0	0
FLORIDA	1	0	50,000	50,000	0	50,000
GEORGIA	1	105,538	0	105,538	19,304	124,842
HAWAII	1	9,581	0	9,581	13,542	23,123
ILLINOIS/INDIANA	0	0	0	0	0	0
LOUISIANA	0	0	0	0	0	0
MAINE/NEW HAMPSHIRE	0	0	0	0	0	0
MARYLAND	0	0	0	0	0	0
MASSACHUSETTS INST. OF TECH.	1	87,637	0	87,637	140,138	227,775
MICHIGAN	0	0	0	0	0	0
MINNESOTA	0	0	0	0	0	0
MISSISSIPPI/ALABAMA	0	0	0	0	0	0
NEW JERSEY	0	0	0	0	0	0
NEW YORK	1	35,750	0	35,750	21,400	57,150
NORTH CAROLINA	0	0	0	0	0	0
OHIO	0	0	0	0	0	0
OREGON	0	0	0	0	0	0
PUERTO RICO	0	0	0	0	0	0
RHODE ISLAND	1	0	69,294	69,294	0	69,294
SOUTH CAROLINA	0	0	0	0	0	0
TEXAS	0	0	0	0	0	0
UNIV. OF SOUTHERN CALIFORNIA	0	0	0	0	0	0
VIRGINIA	0	0	0	0	0	0
WASHINGTON	0	0	0	0	0	0
WISCONSIN	0	0	0	0	0	0
WOODS HOLE OCEANOGRAPHIC INST.	0	0	0	0	0	0
INDEPENDENT/OTHER	2	41,136	0	41,136	0	41,136
Grand Total:	10	330,663	119,294	449,957	199,799	649,756

Category: 70 - COASTAL COMMUNITY DEVELOPMENT

3-7

Program	Project #	Sea Grant	PassThru	Federal	Matching	Total
ALASKA	0	0	0	0	0	0
CALIFORNIA	1	50,203	0	50,203	25,048	75,251
CONNECTICUT	0	0	0	0	0	0
DELAWARE	0	0	0	0	0	0
FLORIDA	0	0	0	0	0	0
GEORGIA	0	0	0	0	0	0
HAWAII	0	0	0	0	0	0
ILLINOIS/INDIANA	1	30,000	0	30,000	15,000	45,000
LOUISIANA	3	100,754	0	100,754	39,340	140,094
MAINE/NEW HAMPSHIRE	0	0	0	0	0	0
MARYLAND	0	0	0	0	0	0
MASSACHUSETTS INST. OF TECH.	1	0	125,000	125,000	0	125,000
MICHIGAN	0	0	0	0	0	0
MINNESOTA	0	0	0	0	0	0
MISSISSIPPI/ALABAMA	1	73,849	0	73,849	145,909	219,758
NEW JERSEY	0	0	0	0	0	0
NEW YORK	0	0	0	0	0	0
NORTH CAROLINA	0	0	0	0	0	0
OHIO	0	0	0	0	0	0
OREGON	2	72,169	0	72,169	45,356	117,525
PUERTO RICO	0	0	0	0	0	0
RHODE ISLAND	1	30,308	0	30,308	31,263	61,571
SOUTH CAROLINA	1	0	55,824	55,824	0	55,824
TEXAS	1	70,137	0	70,137	26,724	96,861
UNIV. OF SOUTHERN CALIFORNIA	0	0	0	0	0	0
VIRGINIA	0	0	0	0	0	0
WASHINGTON	0	0	0	0	0	0
WISCONSIN	2	92,772	0	92,772	60,290	153,062
WOODS HOLE OCEANOGRAPHIC INST.	0	0	0	0	0	0
INDEPENDENT/OTHER	0	0	0	0	0	0
Grand Total:	14	520,192	180,824	701,016	388,930	1,089,946

Category: 80 - REVITALIZING MARINE INFRASTRUCTURE

3-8

Program	Project #	Sea Grant	PassThru	Federal	Matching	Total
ALASKA	0	0	0	0	0	0
CALIFORNIA	1	0	0	0	0	0
CONNECTICUT	0	0	0	0	0	0
DELAWARE	0	0	0	0	0	0
FLORIDA	0	0	0	0	0	0
GEORGIA	0	0	0	0	0	0
HAWAII	1	24,990	0	24,990	23,779	48,769
ILLINOIS/INDIANA	0	0	0	0	0	0
LOUISIANA	0	0	0	0	0	0
MAINE/NEW HAMPSHIRE	0	0	0	0	0	0
MARYLAND	0	0	0	0	0	0
MASSACHUSETTS INST. OF TECH.	0	0	0	0	0	0
MICHIGAN	0	0	0	0	0	0
MINNESOTA	0	0	0	0	0	0
MISSISSIPPI/ALABAMA	0	0	0	0	0	0
NEW JERSEY	0	0	0	0	0	0
NEW YORK	0	0	0	0	0	0
NORTH CAROLINA	0	0	0	0	0	0
OHIO	1	25,416	0	25,416	26,389	51,805
OREGON	0	0	0	0	0	0
PUERTO RICO	0	0	0	0	0	0
RHODE ISLAND	0	0	0	0	0	0
SOUTH CAROLINA	0	0	0	0	0	0
TEXAS	0	0	0	0	0	0
UNIV. OF SOUTHERN CALIFORNIA	0	0	0	0	0	0
VIRGINIA	0	0	0	0	0	0
WASHINGTON	0	0	0	0	0	0
WISCONSIN	0	0	0	0	0	0
WOODS HOLE OCEANOGRAPHIC INST.	0	0	0	0	0	0
INDEPENDENT/OTHER	1	47,763	0	47,763	0	47,763
Grand Total:	4	98,169	0	98,169	50,168	148,337

Category: 90 - COASTAL AND GREAT LAKES WATER QUALITY

3-9

Program	Project #	Sea Grant	PassThru	Federal	Matching	Total
ALASKA	1	33,429	0	33,429	0	33,429
CALIFORNIA	7	141,580	97,339	238,919	106,963	345,882
CONNECTICUT	0	0	0	0	0	0
DELAWARE	2	37,039	40,000	77,039	26,552	103,591
FLORIDA	3	92,055	0	92,055	47,253	139,308
GEORGIA	2	64,252	0	64,252	62,414	126,666
HAWAII	7	191,624	0	191,624	218,823	410,447
ILLINOIS/INDIANA	3	212,733	0	212,733	79,969	292,702
LOUISIANA	3	133,536	76,000	209,536	52,030	261,566
MAINE/NEW HAMPSHIRE	5	136,750	193,346	330,096	45,101	375,197
MARYLAND	7	202,954	634,482	837,436	121,188	958,624
MASSACHUSETTS INST. OF TECH.	3	193,983	0	193,983	174,402	368,385
MICHIGAN	1	124,155	0	124,155	100,322	224,477
MINNESOTA	4	62,361	0	62,361	94,121	156,482
MISSISSIPPI/ALABAMA	0	0	0	0	0	0
NEW JERSEY	4	279,682	35,000	314,682	146,270	460,952
NEW YORK	11	117,635	500,547	618,182	244,751	862,933
NORTH CAROLINA	3	129,495	0	129,495	0	129,495
OHIO	6	182,171	0	182,171	199,165	381,336
OREGON	0	0	0	0	0	0
PUERTO RICO	0	0	0	0	0	0
RHODE ISLAND	6	260,124	0	260,124	144,299	404,423
SOUTH CAROLINA	1	0	22,062	22,062	0	22,062
TEXAS	2	95,351	0	95,351	60,665	156,016
UNIV. OF SOUTHERN CALIFORNIA	5	260,928	0	260,928	222,216	483,144
VIRGINIA	4	0	336,518	336,518	0	336,518
WASHINGTON	2	96,900	0	96,900	56,515	153,415
WISCONSIN	7	417,389	0	417,389	250,141	667,530
WOODS HOLE OCEANOGRAPHIC INST.	4	120,413	260,941	381,354	89,329	470,683
INDEPENDENT/OTHER	6	99,358	435,737	535,095	0	535,095
Grand Total:	109	3,685,897	2,631,972	6,317,869	2,542,489	8,860,358

Category: 100 - COASTAL AND GREAT LAKES HABITATS

3-10

Program	Project #	Sea Grant	PassThru	Federal	Matching	Total
ALASKA	1	92,405	0	92,405	150,199	242,604
CALIFORNIA	8	665,148	0	665,148	536,548	1,201,696
CONNECTICUT	3	93,840	0	93,840	68,024	161,864
DELAWARE	0	0	0	0	0	0
FLORIDA	7	394,317	180,000	574,317	186,793	761,110
GEORGIA	3	125,422	0	125,422	60,143	185,565
HAWAII	2	39,602	0	39,602	79,503	119,105
ILLINOIS/INDIANA	7	615,473	0	615,473	350,532	966,005
LOUISIANA	6	355,018	70,000	425,018	179,533	604,551
MAINE/NEW HAMPSHIRE	0	0	0	0	0	0
MARYLAND	3	299,311	1,498,750	1,798,061	89,186	1,887,247
MASSACHUSETTS INST. OF TECH.	2	109,324	0	109,324	69,195	178,519
MICHIGAN	7	476,272	0	476,272	339,499	815,771
MINNESOTA	8	258,715	0	258,715	134,656	393,371
MISSISSIPPI/ALABAMA	3	230,344	0	230,344	128,079	358,423
NEW JERSEY	3	122,816	0	122,816	213,111	335,927
NEW YORK	7	543,417	0	543,417	279,110	822,527
NORTH CAROLINA	0	0	0	0	0	0
OHIO	10	324,689	0	324,689	217,250	541,939
OREGON	1	80,209	0	80,209	0	80,209
PUERTO RICO	0	0	0	0	0	0
RHODE ISLAND	4	388,945	0	388,945	227,791	616,736
SOUTH CAROLINA	4	205,338	692,000	897,338	198,495	1,095,833
TEXAS	5	180,897	87,188	268,085	87,236	355,321
UNIV. OF SOUTHERN CALIFORNIA	1	46,865	0	46,865	26,937	73,802
VIRGINIA	1	57,166	0	57,166	31,153	88,319
WASHINGTON	4	256,482	80,000	336,482	151,829	488,311
WISCONSIN	0	0	0	0	0	0
WOODS HOLE OCEANOGRAPHIC INST.	0	0	0	0	0	0
INDEPENDENT/OTHER	2	10,001	58,996	68,997	9,974	78,971
Grand Total:	102	5,972,016	2,666,934	8,638,950	3,814,776	12,453,726

Category: 110 - SUSTAINABLE DEVELOPMENT

3-11

Program	Project #	Sea Grant	PassThru	Federal	Matching	Total
ALASKA	0	0	0	0	0	0
CALIFORNIA	0	0	0	0	0	0
CONNECTICUT	0	0	0	0	0	0
DELAWARE	1	19,479	0	19,479	50,918	70,397
FLORIDA	0	0	0	0	0	0
GEORGIA	0	0	0	0	0	0
HAWAII	1	10,000	0	10,000	22,471	32,471
ILLINOIS/INDIANA	0	0	0	0	0	0
LOUISIANA	1	77,528	0	77,528	52,129	129,657
MAINE/NEW HAMPSHIRE	0	0	0	0	0	0
MARYLAND	0	0	0	0	0	0
MASSACHUSETTS INST. OF TECH.	0	0	0	0	0	0
MICHIGAN	0	0	0	0	0	0
MINNESOTA	0	0	0	0	0	0
MISSISSIPPI/ALABAMA	0	0	0	0	0	0
NEW JERSEY	0	0	0	0	0	0
NEW YORK	0	0	0	0	0	0
NORTH CAROLINA	1	0	0	0	16,990	16,990
OHIO	0	0	0	0	0	0
OREGON	1	59,645	0	59,645	50,253	109,898
PUERTO RICO	0	0	0	0	0	0
RHODE ISLAND	1	0	32,000	32,000	0	32,000
SOUTH CAROLINA	1	0	85,000	85,000	9,187	94,187
TEXAS	0	0	0	0	0	0
UNIV. OF SOUTHERN CALIFORNIA	2	41,924	0	41,924	34,530	76,454
VIRGINIA	0	0	0	0	0	0
WASHINGTON	1	39,300	0	39,300	21,231	60,531
WISCONSIN	0	0	0	0	0	0
WOODS HOLE OCEANOGRAPHIC INST.	0	0	0	0	0	0
INDEPENDENT/OTHER	0	0	0	0	0	0
Grand Total:	10	247,876	117,000	364,876	257,709	622,585

Category: 120 - COASTAL AND NATURAL HAZARDS

3-12

Program	Project #	Sea Grant	PassThru	Federal	Matching	Total
ALASKA	0	0	0	0	0	0
CALIFORNIA	0	0	0	0	0	0
CONNECTICUT	0	0	0	0	0	0
DELAWARE	7	81,682	0	81,682	228,915	310,597
FLORIDA	1	58,343	0	58,343	29,167	87,510
GEORGIA	1	73,894	0	73,894	45,206	119,100
HAWAII	3	118,609	0	118,609	20,745	139,354
ILLINOIS/INDIANA	0	0	0	0	0	0
LOUISIANA	0	0	0	0	0	0
MAINE/NEW HAMPSHIRE	0	0	0	0	0	0
MARYLAND	0	0	0	0	0	0
MASSACHUSETTS INST. OF TECH.	1	69,932	0	69,932	35,006	104,938
MICHIGAN	0	0	0	0	0	0
MINNESOTA	0	0	0	0	0	0
MISSISSIPPI/ALABAMA	0	0	0	0	0	0
NEW JERSEY	1	46,488	0	46,488	47,309	93,797
NEW YORK	1	20,265	0	20,265	20,606	40,871
NORTH CAROLINA	2	25,645	0	25,645	6,030	31,675
OHIO	0	0	0	0	0	0
OREGON	1	19,564	0	19,564	0	19,564
PUERTO RICO	1	50,000	0	50,000	16,412	66,412
RHODE ISLAND	3	16,988	165,068	182,056	13,675	195,731
SOUTH CAROLINA	2	27,383	254,100	281,483	149,652	431,135
TEXAS	0	0	0	0	0	0
UNIV. OF SOUTHERN CALIFORNIA	0	0	0	0	0	0
VIRGINIA	0	0	0	0	0	0
WASHINGTON	0	0	0	0	0	0
WISCONSIN	0	0	0	0	0	0
WOODS HOLE OCEANOGRAPHIC INST.	1	58,024	0	58,024	13,424	71,448
INDEPENDENT/OTHER	0	0	0	0	0	0
Grand Total:	25	666,817	419,168	1,085,985	626,147	1,712,132

Category: 130 - SAFETY AT SEA

3-13

Program	Project #	Sea Grant	PassThru	Federal	Matching	Total
ALASKA	0	0	0	0	0	0
CALIFORNIA	0	0	0	0	0	0
CONNECTICUT	0	0	0	0	0	0
DELAWARE	0	0	0	0	0	0
FLORIDA	0	0	0	0	0	0
GEORGIA	0	0	0	0	0	0
HAWAII	0	0	0	0	0	0
ILLINOIS/INDIANA	0	0	0	0	0	0
LOUISIANA	0	0	0	0	0	0
MAINE/NEW HAMPSHIRE	0	0	0	0	0	0
MARYLAND	0	0	0	0	0	0
MASSACHUSETTS INST. OF TECH.	0	0	0	0	0	0
MICHIGAN	1	142,528	0	142,528	76,603	219,131
MINNESOTA	0	0	0	0	0	0
MISSISSIPPI/ALABAMA	0	0	0	0	0	0
NEW JERSEY	0	0	0	0	0	0
NEW YORK	0	0	0	0	0	0
NORTH CAROLINA	0	0	0	0	0	0
OHIO	0	0	0	0	0	0
OREGON	0	0	0	0	0	0
PUERTO RICO	0	0	0	0	0	0
RHODE ISLAND	0	0	0	0	0	0
SOUTH CAROLINA	0	0	0	0	0	0
TEXAS	0	0	0	0	0	0
UNIV. OF SOUTHERN CALIFORNIA	0	0	0	0	0	0
VIRGINIA	0	0	0	0	0	0
WASHINGTON	0	0	0	0	0	0
WISCONSIN	2	77,127	0	77,127	67,783	144,910
WOODS HOLE OCEANOGRAPHIC INST.	0	0	0	0	0	0
INDEPENDENT/OTHER	0	0	0	0	0	0
Grand Total:	3	219,655	0	219,655	144,386	364,041

Category: 140 - EDUCATION

3-14

Program	Project #	Sea Grant	PassThru	Federal	Matching	Total
ALASKA	1	129,326	0	129,326	44,419	173,745
CALIFORNIA	5	610,184	47,818	658,002	99,687	757,689
CONNECTICUT	2	88,627	0	88,627	20,643	109,270
DELAWARE	1	338,650	0	338,650	44,327	382,977
FLORIDA	1	22,070	0	22,070	29,102	51,172
GEORGIA	3	134,155	0	134,155	128,089	262,244
HAWAII	0	0	0	0	0	0
ILLINOIS/INDIANA	1	24,500	0	24,500	8,764	33,264
LOUISIANA	3	63,889	36,000	99,889	19,945	119,834
MAINE/NEW HAMPSHIRE	2	59,001	0	59,001	43,813	102,814
MARYLAND	4	226,000	36,000	262,000	54,162	316,162
MASSACHUSETTS INST. OF TECH.	4	216,300	50,000	266,300	357,951	624,251
MICHIGAN	2	40,855	36,000	76,855	21,136	97,991
MINNESOTA	1	136,876	0	136,876	0	136,876
MISSISSIPPI/ALABAMA	3	37,468	40,000	77,468	45,913	123,381
NEW JERSEY	1	39,987	0	39,987	20,592	60,579
NEW YORK	1	194,190	0	194,190	0	194,190
NORTH CAROLINA	5	407,107	36,000	443,107	62,015	505,122
OHIO	1	45,208	0	45,208	44,619	89,827
OREGON	2	72,000	0	72,000	0	72,000
PUERTO RICO	3	58,962	36,000	94,962	51,594	146,556
RHODE ISLAND	1	0	36,000	36,000	18,000	54,000
SOUTH CAROLINA	4	100,494	287,000	387,494	42,309	429,803
TEXAS	4	105,372	72,000	177,372	59,245	236,617
UNIV. OF SOUTHERN CALIFORNIA	2	94,000	0	94,000	5,000	99,000
VIRGINIA	2	72,000	0	72,000	0	72,000
WASHINGTON	3	59,201	36,000	95,201	32,685	127,886
WISCONSIN	2	28,629	72,000	100,629	39,954	140,583
WOODS HOLE OCEANOGRAPHIC INST.	0	0	0	0	0	0
INDEPENDENT/OTHER	2	40,000	58,784	98,784	34,380	133,164
Grand Total:	66	3,445,051	879,602	4,324,653	1,328,344	5,652,997

Category: 150 - MARINE ADVISORY SERVICE

3-15

Program	Project #	Sea Grant	PassThru	Federal	Matching	Total
ALASKA	1	431,176	0	431,176	525,859	957,035
CALIFORNIA	1	688,000	0	688,000	495,557	1,183,557
CONNECTICUT	2	159,080	0	159,080	89,038	248,118
DELAWARE	1	254,566	0	254,566	319,007	573,573
FLORIDA	1	625,100	0	625,100	337,631	962,731
GEORGIA	2	265,093	0	265,093	133,497	398,590
HAWAII	1	500,000	0	500,000	154,587	654,587
ILLINOIS/INDIANA	2	101,213	0	101,213	76,873	178,086
LOUISIANA	1	232,982	0	232,982	272,232	505,214
MAINE/NEW HAMPSHIRE	2	395,407	99,000	494,407	252,001	746,408
MARYLAND	1	210,000	0	210,000	463,688	673,688
MASSACHUSETTS INST. OF TECH.	2	84,838	0	84,838	38,481	123,319
MICHIGAN	2	423,736	0	423,736	209,699	633,435
MINNESOTA	1	336,845	0	336,845	190,312	527,157
MISSISSIPPI/ALABAMA	2	173,700	0	173,700	148,964	322,664
NEW JERSEY	1	125,000	0	125,000	66,526	191,526
NEW YORK	1	649,400	0	649,400	393,878	1,043,278
NORTH CAROLINA	1	552,656	0	552,656	396,443	949,099
OHIO	1	306,030	0	306,030	161,113	467,143
OREGON	1	690,000	0	690,000	690,295	1,380,295
PUERTO RICO	4	245,174	0	245,174	201,210	446,384
RHODE ISLAND	2	434,064	0	434,064	225,873	659,937
SOUTH CAROLINA	1	225,322	0	225,322	170,421	395,743
TEXAS	1	440,000	0	440,000	245,241	685,241
UNIV. OF SOUTHERN CALIFORNIA	1	183,250	0	183,250	18,787	202,037
VIRGINIA	1	575,768	0	575,768	415,262	991,030
WASHINGTON	1	696,300	0	696,300	393,286	1,089,586
WISCONSIN	1	240,141	0	240,141	310,092	550,233
WOODS HOLE OCEANOGRAPHIC INST.	1	119,595	0	119,595	53,854	173,449
INDEPENDENT/OTHER	1	0	0	0	0	0
Grand Total:	41	10,364,436	99,000	10,463,436	7,449,707	17,913,143

Category: 160 - COMMUNICATIONS

3-16

Program	Project #	Sea Grant	PassThru	Federal	Matching	Total
ALASKA	2	149,669	0	149,669	315,384	465,053
CALIFORNIA	1	313,905	0	313,905	62,283	376,188
CONNECTICUT	1	125,331	0	125,331	0	125,331
DELAWARE	1	173,204	0	173,204	120,569	293,773
FLORIDA	1	134,900	0	134,900	68,908	203,808
GEORGIA	1	114,877	0	114,877	0	114,877
HAWAII	1	125,000	0	125,000	36,000	161,000
ILLINOIS/INDIANA	1	126,060	0	126,060	40,033	166,093
LOUISIANA	1	57,997	0	57,997	123,028	181,025
MAINE/NEW HAMPSHIRE	1	226,457	0	226,457	87,375	313,832
MARYLAND	3	306,051	0	306,051	226,797	532,848
MASSACHUSETTS INST. OF TECH.	1	249,600	0	249,600	80,625	330,225
MICHIGAN	1	169,308	0	169,308	82,503	251,811
MINNESOTA	2	114,019	0	114,019	29,374	143,393
MISSISSIPPI/ALABAMA	1	112,045	0	112,045	51,941	163,986
NEW JERSEY	1	72,720	0	72,720	39,748	112,468
NEW YORK	1	123,505	0	123,505	0	123,505
NORTH CAROLINA	1	101,078	0	101,078	137,313	238,391
OHIO	1	56,293	0	56,293	23,563	79,856
OREGON	1	275,001	0	275,001	144,293	419,294
PUERTO RICO	2	133,272	0	133,272	114,597	247,869
RHODE ISLAND	2	378,575	0	378,575	26,386	404,961
SOUTH CAROLINA	2	185,008	0	185,008	33,450	218,458
TEXAS	1	177,479	0	177,479	95,000	272,479
UNIV. OF SOUTHERN CALIFORNIA	1	103,700	0	103,700	26,474	130,174
VIRGINIA	0	0	0	0	0	0
WASHINGTON	2	330,200	0	330,200	72,031	402,231
WISCONSIN	3	219,195	0	219,195	241,864	461,059
WOODS HOLE OCEANOGRAPHIC INST.	1	90,969	0	90,969	17,576	108,545
INDEPENDENT/OTHER	0	0	0	0	0	0
Grand Total:	38	4,745,418	0	4,745,418	2,297,115	7,042,533

Category: 170 - PROGRAM ADMINISTRATION

3-17

Program	Project #	Sea Grant	PassThru	Federal	Matching	Total
ALASKA	1	94,875	0	94,875	194,595	289,470
CALIFORNIA	1	264,441	0	264,441	122,489	386,930
CONNECTICUT	1	129,716	0	129,716	179,955	309,671
DELAWARE	1	55,877	0	55,877	76,594	132,471
FLORIDA	1	169,000	0	169,000	84,546	253,546
GEORGIA	1	86,631	0	86,631	98,841	185,472
HAWAII	1	126,314	0	126,314	18,000	144,314
ILLINOIS/INDIANA	2	44,611	0	44,611	46,811	91,422
LOUISIANA	1	40,787	0	40,787	211,677	252,464
MAINE/NEW HAMPSHIRE	1	183,686	0	183,686	245,183	428,869
MARYLAND	1	62,000	0	62,000	52,416	114,416
MASSACHUSETTS INST. OF TECH.	1	170,187	0	170,187	230,929	401,116
MICHIGAN	1	69,985	0	69,985	201,696	271,681
MINNESOTA	2	102,923	0	102,923	12,000	114,923
MISSISSIPPI/ALABAMA	2	311,888	0	311,888	99,934	411,822
NEW JERSEY	1	154,734	0	154,734	86,931	241,665
NEW YORK	1	158,718	0	158,718	0	158,718
NORTH CAROLINA	1	129,996	0	129,996	0	129,996
OHIO	2	96,318	0	96,318	147,688	244,006
OREGON	1	152,526	0	152,526	305,134	457,660
PUERTO RICO	2	82,698	0	82,698	92,849	175,547
RHODE ISLAND	1	257,531	0	257,531	221,270	478,801
SOUTH CAROLINA	1	95,539	0	95,539	32,354	127,893
TEXAS	1	224,803	0	224,803	129,300	354,103
UNIV. OF SOUTHERN CALIFORNIA	1	32,700	0	32,700	122,891	155,591
VIRGINIA	1	224,866	0	224,866	60,000	284,866
WASHINGTON	1	164,400	0	164,400	144,475	308,875
WISCONSIN	1	90,501	0	90,501	203,564	294,065
WOODS HOLE OCEANOGRAPHIC INST.	1	115,362	0	115,362	82,873	198,235
INDEPENDENT/OTHER	1	305,103	0	305,103	0	305,103
Grand Total:	35	4,198,716	0	4,198,716	3,504,995	7,703,711

Category: 180 - PROGRAM DEVELOPMENT

3-18

Program	Project #	Sea Grant	PassThru	Federal	Matching	Total
ALASKA	2	152,405	0	152,405	0	152,405
CALIFORNIA	2	406,599	0	406,599	51,751	458,350
CONNECTICUT	2	100,000	0	100,000	0	100,000
DELAWARE	1	120,133	0	120,133	0	120,133
FLORIDA	1	81,580	0	81,580	0	81,580
GEORGIA	1	141,795	0	141,795	65,867	207,662
HAWAII	1	152,738	0	152,738	13,167	165,905
ILLINOIS/INDIANA	1	70,000	0	70,000	57,446	127,446
LOUISIANA	1	140,500	0	140,500	22,212	162,712
MAINE/NEW HAMPSHIRE	2	146,939	0	146,939	66,123	213,062
MARYLAND	2	106,651	0	106,651	18,972	125,623
MASSACHUSETTS INST. OF TECH.	1	155,000	0	155,000	86,726	241,726
MICHIGAN	1	100,000	0	100,000	0	100,000
MINNESOTA	1	23,793	0	23,793	63,307	87,100
MISSISSIPPI/ALABAMA	0	0	0	0	0	0
NEW JERSEY	1	51,119	0	51,119	0	51,119
NEW YORK	1	133,866	0	133,866	0	133,866
NORTH CAROLINA	1	75,000	0	75,000	0	75,000
OHIO	2	105,000	0	105,000	21,900	126,900
OREGON	1	196,474	0	196,474	58,875	255,349
PUERTO RICO	3	94,650	0	94,650	15,000	109,650
RHODE ISLAND	1	131,572	0	131,572	9,119	140,691
SOUTH CAROLINA	1	126,924	0	126,924	15,000	141,924
TEXAS	2	145,700	0	145,700	30,000	175,700
UNIV. OF SOUTHERN CALIFORNIA	1	119,498	0	119,498	7,948	127,446
VIRGINIA	2	171,616	0	171,616	25,000	196,616
WASHINGTON	1	176,300	0	176,300	61,862	238,162
WISCONSIN	2	131,514	0	131,514	114,598	246,112
WOODS HOLE OCEANOGRAPHIC INST.	1	70,000	0	70,000	0	70,000
INDEPENDENT/OTHER	0	0	0	0	0	0
Grand Total:	39	3,627,366	0	3,627,366	804,873	4,432,239

Category: 190 - OTHER

3-19

Program	Project #	Sea Grant	PassThru	Federal	Matching	Total
ALASKA	0	0	0	0	0	0
CALIFORNIA	1	27,390	0	27,390	4,274	31,664
CONNECTICUT	0	0	0	0	0	0
DELAWARE	1	24,650	0	24,650	38,949	63,599
FLORIDA	0	0	0	0	0	0
GEORGIA	0	0	0	0	0	0
HAWAII	0	0	0	0	0	0
ILLINOIS/INDIANA	0	0	0	0	0	0
LOUISIANA	0	0	0	0	0	0
MAINE/NEW HAMPSHIRE	0	0	0	0	0	0
MARYLAND	0	0	0	0	0	0
MASSACHUSETTS INST. OF TECH.	0	0	0	0	0	0
MICHIGAN	0	0	0	0	0	0
MINNESOTA	0	0	0	0	0	0
MISSISSIPPI/ALABAMA	0	0	0	0	0	0
NEW JERSEY	0	0	0	0	0	0
NEW YORK	0	0	0	0	0	0
NORTH CAROLINA	0	0	0	0	0	0
OHIO	0	0	0	0	0	0
OREGON	0	0	0	0	0	0
PUERTO RICO	0	0	0	0	0	0
RHODE ISLAND	0	0	0	0	0	0
SOUTH CAROLINA	0	0	0	0	0	0
TEXAS	0	0	0	0	0	0
UNIV. OF SOUTHERN CALIFORNIA	0	0	0	0	0	0
VIRGINIA	0	0	0	0	0	0
WASHINGTON	0	0	0	0	0	0
WISCONSIN	0	0	0	0	0	0
WOODS HOLE OCEANOGRAPHIC INST.	0	0	0	0	0	0
INDEPENDENT/OTHER	0	0	0	0	0	0
Grand Total:	2	52,040	0	52,040	43,223	95,263

Section Four:

Project Listing by Category

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-1

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
Project Category: 11 - MOLECULAR GENETICS					
R/MP-61 (10488)	MARGO HAYGOOD	CALIFORNIA	22,159	0	12,207
Title: MOLECULAR CHARACTERIZATION OF MICROBIAL SYMBIONTS OF BRYOZOANS					
R/A-107 (11549)	JANE BURNS	CALIFORNIA	85,302	0	43,334
Title: GENETIC ENGINEERING TO CREATE A TRANSFORMED OYSTER CELL LINE					
R/A-34 (11101)	H. CHIKARMANE/A. KUZIRIA	WOODS HOLE OCEANOGRAPHIC INST.	50,000	0	29,205
Title: DEVELOPMENT OF PHENOTYPIC MARKERS FOR IDENTIFICATION OF SEEDED SCALLOPS					
R/B-137 (11102)	M.E. HAHN/B. A. JENSEN	WOODS HOLE OCEANOGRAPHIC INST.	36,628	0	24,141
Title: MOLECULAR BIOMARKERS OF CHEMICAL SENSITIVITY IN PROTECTED SPECIES: A NEW APPROACH TO ENVIRONMENTAL RISK ASSESSMENT					
R/BT-19 (10276)	MEINTS	OREGON	20,358	0	16,630
Title: VIRUSES AS AGENTS FOR MOLECULAR STUDIES OF MARINE ALGAE					
R/B-19 (11215)	E. VIRGINIA ARMBURST	WASHINGTON	40,000	0	20,615
Title: DEVELOPMENT OF MOLECULAR GENETICS FOR MARINE DIATOMS					
Number of Projects: 6			Subtotal:	254,447	0 146,132

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-2

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
Project Category: 12 - NATURAL PRODUCTS: CHEMISTRY AND BIOLOGICAL ACTIVITY					
R/MP-58 (10484)	ROBERT JACOBS	CALIFORNIA	44,412	0	21,716
Title: MARINE DRUG DISCOVERY PROGRAM I. PHARMACOLOGY OF INFLAMMATION					
R/MP-59 (10485)	WILLIAM FENICAL	CALIFORNIA	35,605	0	24,275
Title: MARINE DRUG DISCOVERY PROGRAM: NEW TREATMENTS FOR ARTHRITIS AND RELATED INFLAMMATORY DISEASE					
R/MP-60 (10486)	JOHN D. FAULKNER	CALIFORNIA	34,932	0	19,692
Title: MARINE DRUG DISCOVERY PROGRAM: NEW PHARMACEUTICALS FROM MARINE INVERTEBRATES					
R/MP-65 (10652)	DANIEL MORSE	CALIFORNIA	168,716	0	72,575
Title: NEW HIGH-PERFORMANCE COMPOSITE MATERIALS FROM MARINE BIOMINERALIZATION: BIOTECHNOLOGICAL AND INTERDISCIPLINARY APPROACH					
E/IF-1 (11056)	JAMES J. SULLIVAN	CALIFORNIA	24,000	0	24,000
Title: THE REGULATION OF GENE EXPRESSION IN RHEUMATOID ARTHRITIS: AN INVESTIGATION OF THE ROLE OF MARINE NATURAL PRODUCTS IN TRANSCRIPTION FACTOR MODULATION					
R/MP-76 (11456)	ALISON BUTLER	CALIFORNIA	107,970	0	73,190
Title: MARINE ENZYMES AND SIDEROPHORES: A BIOCHEMICAL AND BIO-ORGANIC APPROACH TO MARINE PHARMACOLOGY					
R/MP-78 (11464)	PHIL CREWS	CALIFORNIA	80,594	0	44,419
Title: MARINE SPONGES AND THEIR ASSOCIATED MICRO ORGANISMS AS A SOURCE OF ANTIINFECTIVE THERAPEUTIC LEADS					
R/MP-77 (11465)	ROBERT E. SHADWICK	CALIFORNIA	0	0	0
Title: MARINE NATURAL MATERIALS: NOVEL BIOLOGICAL ELASTOMERS FROM MARINE ORGANISMS					
R/B-32 (10192)	S. C. CARY	DELAWARE	37,730	0	18,138
Title: CHARACTERIZATION OF MECHANISMS OF BACTERIAL SYMBIONT TRANSMISSION IN WOOD-BORING BIVALVES					
R/P-9 (11572)	BILIANA CICIN-SAIN/R. KN	DELAWARE	23,800	0	11,756
Title: ASSESSING THE BENEFITS FROM SEA GRANT RESEARCH AND OUTREACH ON MARINE BIOTECHNOLOGY					

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-3

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
R/LR-MB-2 (11233)	BILL J. BAKER	FLORIDA	54,335	0	27,032
Title: BIOTECHNOLOGICAL DEVELOPMENT OF FLORIDIAN TUNICATE PRODUCTS					
R/MP-8 (10617)	MARCUS A. TIUS	HAWAII	29,997	0	55,538
Title: BIOACTIVE MACROCYCLES FROM SOFT CORAL					
R/MP-3 (10618)	PAUL J. SCHEUER	HAWAII	32,364	0	7,803
Title: BIOACTIVE MARINE METABOLITES					
R/MP-11 (11373)	SOPHIA KATHARIOU	HAWAII	46,713	0	25,092
Title: NOVEL ANTIBIOTICS FROM BENTHIC MICROORGANISMS					
R/BT-03 (11257)	SAUL ROSEMAN	MARYLAND	110,250	0	55,126
Title: THE PREPARATION OF CHITIN OLIGOSACCHARIDES					
R/MT-31 (11243)	JORDAN K. ZJAWIONY	MISSISSIPPI/ALABAMA	47,894	0	48,469
Title: SOFT CORAL CEMBRANOLIDES AS PROTOTYPES OF NEW PHARMACEUTICAL AGENTS					
R/MT-32 (11244)	CHARLES D. AMSLER	MISSISSIPPI/ALABAMA	50,027	0	28,675
Title: ISOLATION AND PURIFICATION OF BIOACTIVE COMPOUNDS FROM ECHINODERMS UTILIZING A NOVEL BIOFOULING ASSAY					
R/MT-34 (11245)	JOHN D. WEETE	MISSISSIPPI/ALABAMA	42,773	0	21,387
Title: CHARACTERIZATION OF NOVEL LIPASES FROM MARINE FUNGI					
R/MT-35 (11246)	MARK HAMANN	MISSISSIPPI/ALABAMA	44,266	0	39,111
Title: MARINE NATURAL PRODUCTS FROM THE GULF OF MEXICO AS PHARMACEUTICAL AND AGROCHEMICAL AGENTS					
R/XBP-5 (11274)	ILAN SPECTOR/YOEL KASHMA	NEW YORK	187,747	0	102,618
Title: SWINHOLIDE A -A CYTOTOXIC MARINE MACROLIDE WITH A NOVEL MECHANISM OF PHARMACOLOGICAL ACTION					
R/MX-7 (11070)	A. P. WHEELER/R. J. ROSS	SOUTH CAROLINA	39,998	0	18,399
Title: ENVIRONMENTAL AND BIOLOGICAL FATE OF NEW POLYMER ADDITIVES FOR INDUSTRIAL AND AGRICULTURAL APPLICATIONS.					

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-4

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
R/MX-8 (11413)	DUANE C. YOCH	SOUTH CAROLINA Title: ISOLATION AND IDENTIFICATION OF A NEW ANTIBIOTIC FACTOR PRODUCED BY A MARINE MICROBE	99,773	0	82,615
R/BT-2 (10597)	JAMES L. WAY	TEXAS Title: ANTAGONISM OF SULFIDE INTOXICATION WITH MARINE ENZYMES IN CELL CARRIERS SYSTEMS	35,000	0	24,650
R/B-16 (10748)	LEE A. HADWIGER	WASHINGTON Title: CRAB SHELL CHITOSAN: UTILIZATION OF ITS GENE ACTIVATION PROPERTIES	57,500	0	42,990
R/B-17 (11212)	JODY W. DEMING/B.K. BROCK	WASHINGTON Title: LOW-TEMPERATURE ENZYMES FOR BIOTECHNOLOGY AND BIOREMEDIATION FROM EXTREMELY PSYCHROPHILIC MARINE BACTERIA.	58,000	0	31,606
R/B-18 (11213)	JOHN BAROSS	WASHINGTON Title: EXTREMELY HIGH TEMPERATURE ENZYME AND BIOCATALYTIC REACTIONS FOR BIOTECHNOLOGY FROM HYPERTHERMOPHILIC MARINE MICROORGANISMS	46,100	0	23,302
R/B-20 (11214)	BRADLEY S. MOORE	WASHINGTON Title: BIOSYNTHESIS OF THE MARINE METABOLITE SALINAMIDE A.	52,500	0	25,850
R/BT-9 (11344)	JAMES S. MAKI	WISCONSIN Title: BACTERIA AND THEIR EXTRACELLULAR POLYMERS IN SETTLEMENT AND ANTIFOULING	117,944	0	0
R/OK-1 (10938)	FRANCIS J. SCHMITZ	INDEPENDENT/OTHER Title: BIOACTIVE COMPOUNDS FROM MARINE ORGANISMS	75,000	0	40,132
R/UT-2 (11107)	CHRIS IRELAND/LOUIS BARR	INDEPENDENT/OTHER Title: METABOLITE STUDIES WITH MARINE MICROORGANISM.	70,449	0	35,250
Number of Projects: 30			Subtotal:	1,856,389	0 1,045,406

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-5

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
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Project Category: 13 - BIOPROCESSING, BIOREACTION, CELL AND TISSUE CULTURE

R/B-30	JOHN L. GALLAGHER	DELAWARE	53,605	0	50,276
(10193)	Title: HALOPHYTE SALT-TOLERANCE MECHANISMS: CELLULAR, ORGAN, AND WHOLE PLANT RESPONSES				

R/MP-4	GREGORY M. L. PATTERSON	HAWAII	26,662	0	48,586
(10619)	Title: INDUSTRIAL MICROBIOLOGY OF CYANOBACTERIA (BLUE-GREEN ALGAE)				

R/BT-08	GREGORY L. RORRER	OREGON	53,166	0	0
(10427)	Title: BIOPHARMACEUTICALS FROM CELL CULTURES OF RED MACROALGAE				

R/BT-09	WILLIAM H. GERWICK	OREGON	30,028	0	15,665
(10428)	Title: BIOSYNTHESIS OF CURACIN A AND OPTIMIZATION OF ITS PRODUCTION THROUGH CULTURE, STRAIN SELECTION AND MUTAGENETIC STUDIES				

R/AQ96094	DOMINICK MENDOLA	INDEPENDENT/OTHER	50,000	0	0
(11502)	Title: CLOSED-SYSTEM HATCHERY TO SUPPORT AQUACULTURAL PRODUCTION OF BRYOSTATIN				

Number of Projects: 5			Subtotal:	213,461	0	114,527
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SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-6

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
Project Category: 21 - ENHANCEMENT OF ENVIRONMENTAL MONITORING AND ASSESSMENT					
R/F-172 (11455)	DAVID M. CHECKLEY	CALIFORNIA	65,220	0	57,127
Title: REALTIME ASSESSMENT OF PELAGIC FISH EGGS AT SEA					
R/ER-9 (11080)	GABOURY BENOIT/XUHUI LEE	CONNECTICUT	37,170	0	20,798
Title: DEVELOPMENT OF A MOBILE MICROMETEOROLOGICAL SYSTEM FOR MEASURING VOLATILE MERCURY FLUX IN CONNECTICUT SALT MARSHES.					
R/NCOP-5 (11305)	JAMES CATO	FLORIDA	0	28,633	0
Title: OCEAN COLOR ALGORITHM FOR REMOTE SENSING OF COASTAL AND ESTUARINE WATERS: U.S. SOUTH ATLANTIC BIGHT AND EASTERN GULF OF MEXICO					
R/AT-2 (11418)	BRIAN J. BINDER	GEORGIA	27,497	0	8,306
Title: ASSESSMENT OF MICROBIAL COMMUNITY STRUCTURE IN ESTUARINE ENVIRONMENTS USING FLOW CYTOMETRY					
R/AT-3-PD (11507)	E. MICHAEL PERDUE	GEORGIA	4,785	0	0✓
Title: USING NANOFILTRATION AND REVERSE OSMOSIS TO ISOLATE DISSOLVED ORGANIC MATTER FROM SALINE WATERS					
R/ES-2 (11356)	THOMAS F. COONEY	HAWAII	33,788	0	39,451
Title: DEVELOPMENT OF A FIBER-OPTIC OCEAN COLOR AND FLUORESCENCE PROBE AND DATA ANALYSIS ALGORITHMS FOR IN SITU MEASUREMENTS OF PHYTOPLANKTON PRODUCTIVITY					
R/ES-4 (11371)	JUNKJU YUH	HAWAII	40,080	0	54,068
Title: INTELLIGENT MOTION PLANNING AND NAVIGATION FOR UNMANNED UNDERWATER VEHICLES					
R/MM-1 (11372)	ALY I. EL-KADI	HAWAII	10,244	0	27,871
Title: APPLICATION OF HELIUM TRACERS TO MONITORING OF THE LAND-OCEAN INTERFACE					
R/CFB-21 (11003)	JOSEPH E. NEIGEL	LOUISIANA	49,999	0	46,643
Title: DEVELOPMENT OF DNA BASED ASSAYS FOR PLANKTON SAMPLING					
R/P-37 (10043)	LAWRENCE W. HARDING, JR.	MARYLAND	51,930	0	32,415
Title: SATELLITE REMOTE SENSING WITH SEAWIFS TO DETECT SEASONAL AND INTERANNUAL VARIABILITY IN PHYTOPLANKTON ABUNDANCE IN THE CHESAPEAKE BAY AND ADJACENT COASTAL WATERS					

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-7

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
R/P-42 (11058)	LAWRENCE W. HARDING, JR.	MARYLAND	0	108,801	0
Title: THE STUDY OF PHYTOPLANKTON DYNAMICS IN CHESAPEAKE BAY BY REMOTE SENSING OF OCEAN COLOR FROM AIRCRAFT.					
UNKNOWN (11165)	LAWRENCE W. HARDING JR.	MARYLAND	0	127,688	0
Title: OCEAN COLOR MEASUREMENTS FROM THE CHESAPEAKE BAY OBSERVING SYSTEM (CBOS) IN SUPPORT OF SEAWIFS DATA VALIDATION FOR ESTUARIES					
R/LABNET (11537)	KENNETH R. TENORE	MARYLAND	0	20,000	52,300
Title: LABNET: NETWORKING ENVIRONMENTAL DATA BASES OF THE COASTAL LABORATORIES, NMAL					
R/LABNET (11537)	KENNETH R. TENORE	MARYLAND	0	20,000	0
Title: LABNET: NETWORKING ENVIRONMENTAL DATA BASES OF THE COASTAL LABORATORIES, NMAL					
R/LABNET (11537)	KENNETH R. TENORE	MARYLAND	0	25,000	0
Title: LABNET: NETWORKING ENVIRONMENTAL DATA BASES OF THE COASTAL LABORATORIES, NMAL					
R/LABNET (11537)	KENNETH R. TENORE	MARYLAND	0	10,000	0
Title: LABNET: NETWORKING ENVIRONMENTAL DATA BASES OF THE COASTAL LABORATORIES, NMAL					
R/LABNET (11537)	KENNETH R. TENORE	MARYLAND	15,000	0	0
Title: LABNET: NETWORKING ENVIRONMENTAL DATA BASES OF THE COASTAL LABORATORIES, NMAL					
RT-2/RU-25 (10382)	HENRIK SCHMIDT	MASSACHUSETTS INST. OF TECH.	100,000	0	91,684
Title: FOCUS RESEARCH III: AUTONOMOUS UNDERWATER VEHICLES: SCIENTIFIC AND INDUSTRIAL APPLICATION					
RC-51 (11087)	MICHAEL S. TRIANTAFYLLOU	MASSACHUSETTS INST. OF TECH.	75,000	0	85,301
Title: AUTONOMOUS ROBOTIC FISH-LIKE UNDERWATER VEHICLE.					
R/RC-52 (11088)	ROBERT F. CHEN	MASSACHUSETTS INST. OF TECH.	75,000	0	54,092
Title: DEVELOPMENT OF A FIBER OPTIC UV FLUOROMETER FOR AUTONOMOUS UNDERWATER VEHICLES					
R/RD-1 (11433)	MICHAEL TRIANATAFYLLOU	MASSACHUSETTS INST. OF TECH.	75,000	0	73,815
Title: DEVELOPMENT OF PARTICLE TRACKING EQUIPMENT FOR FLOW VISUALIZATION AROUND LIVE. UNRESTRAINED FISH					

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-8

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
R/RT-2/RS-1 (11434) Title: DEVELOPMENT OF AUTONOMOUS SURFACE CRAFT	N.M. PATRIKALAKIS	MASSACHUSETTS INST. OF TECH.	46,500	0	90,713

R/RC-61 (11645) Title: INFORMATION SYSTEM FOR OCEAN PROCESSES	N.M. PATRIKALAKIS	MASSACHUSETTS INST. OF TECH.	190,000	0	103,708

R/M-38 (11098) Title: A STABLE ISOTOPIC APPROACH FOR EARLY DETECTION OF WASTEWATER NITROGEN IN ESTUARINE FOOD WEBS	IVAN VALIELA	WOODS HOLE OCEANOGRAPHIC INST.	51,552	0	26,393

R/ER-32 (11169) Title: OCEAN COLOR ALGORITHM EVALUATION FOR REMOTE SENSING OF COASTAL AND ESTUARINE WATERS: U.S. SOUTH ATLANTIC BIGHT AND EASTERN GULF OF MEXICO	JONATHAN R. PENNOCK	MISSISSIPPI/ALABAMA	0	37,941	26,331

R/ER-35 (11241) Title: A WATER QUALITY INFORMATION SYSTEM INTERGRATING THE SPATIO-TEMPORAL DYNAMICS OF THE WATER QUALITY CHARACTERISTICS OF MOBILE BAY AND ITS TRIBUTARY WATERSHEDS.	ROCKY S. DURRANS	MISSISSIPPI/ALABAMA	46,324	0	38,823

R/NIS-3 (11569) Title: MOLECULAR STRATEGIES TO CHARACTERIZE MICROBIAL DIVERSITY AND PATHOGENS IN MARINE BALLAST WATER	JONATHAN B. GELLER	NORTH CAROLINA	135,406	0	72,120

R/ES-9505 (10796) Title: DEVELOPMENT OF A PROTOTYPE EUTROPHICATION MONITORING AND MODELING SYSTEMS FOR THE MARINE BAYS OF THE NORTHEAST	DAVID TAYLOR	RHODE ISLAND	53,968	0	13,015

R/ER-13 (11073) Title: NEW TECHNIQUES FOR ASSESSMENT OF ESTUARINE SEDIMENT HABITAT QUALITY: FULL LIFE-CYCLE BIOASSAY AND TROPHIC TRANSFER EXPERIMENTS USING MBI OBENTHOS	G.T. CHANDLER/B.C. COULL	SOUTH CAROLINA	59,433	0	29,782

E/O-18 (11609) Title: INTERNSHIPS TO ASSIST IN THE COMMERCIALIZATION OF COASTAL ENVIRONMENTAL TECHNOLOGIES	M. RICHARD DEVOE	SOUTH CAROLINA	0	50,000	0

R/ES-73 (11331) Title: A RAPID QUANTITATIVE METHOD FOR THE MEASUREMENT OF GROWTH RATE IN MARINE ECOSYSTEMS	LEONARD DIMICHELE	TEXAS	37,909	0	13,350

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-9

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
R/ES-74	PAUL MONTAGNA	TEXAS	58,906	0	29,453
(11332)	Title: A NEW MOLECULAR AND STATISTICAL APPROACH TO MEASURE ANTHROPOGENIC IMPACTS				
R/ES-76	JAMES HEILMAN/KEVIN J. M	TEXAS	62,688	0	43,926
(11334)	Title: TOWER-BASED CONDITIONAL SAMPLING TO MONITOR THE IMPACT OF FRESHWATER MANAGEMENT ON COASTAL WETLANDS				
R/ES-20	MARY JANE PERRY	WASHINGTON	37,700	0	33,531
(11221)	Title: PHYTOPLANKTON AS TRACERS OF CIRCULATION IN PUGET SOUND				
R/OT-18	STEVEN EMERSON	WASHINGTON	131,700	0	64,877
(11223)	Title: DEVELOPMENT OF AN ACCURATE OXYGEN SENSOR FOR REMOTE DEPLOYMENT				
R/OT-19	SINCLAIR S. YEE	WASHINGTON	27,670	0	55,295
(11538)	Title: DEVELOPMENT OF SURFACE PLASMON RESONANCE BIOSENSORS FOR MARINE APPLICATIONS: SENSOR PLATFORM DEVELOPMENT AND OPTIMIZATION				
R/NI-20	VLADIMIR J. LUMELSKY	WISCONSIN	47,863	0	29,635
(10134)	Title: INTELLIGENT ROBOT SYSTEM FOR COMPLEX UNDERWATER EXPLORATION TASKS				
R/SBIR7-02	MARCO FLAGG	INDEPENDENT/OTHER	49,995	0	0
(11523)	Title: AUTOMATED IMAGING AND MAPPING SYSTEM FOR AUV				
R/SEAKEYS	JOHN C. OGDEN	INDEPENDENT/OTHER	0	105,000	53,224
(11547)	Title: MODIFIED WORKPLAN FOR CONTINUED OPERATION, MAINTENANCE, AND ENHANCEMENT OF THE SEAKEYS ENVIRONMENTAL MONITORING NETWORK				
Number of Projects: 35			Subtotal:	1,693,542	533,063 1,368,047

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-10

<u>Project Number</u>	<u>PI</u>	<u>Program</u>	<u>Sea Grant</u>	<u>Pass Thru</u>	<u>Matching</u>
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Project Category: 22 - POLLUTION CONTROL AND PREVENTION

R/ME-21	J. L. GALLAGHER/D. M. SE DELAWARE		9,060	0	33,516
(11308)	Title: OPTIMIZING REED (PHRAGMITES AUSTRALIS) FUNCTION IN SLUDGE DRYING BEDS: PRODUCING A MORE EFFECTIVE GENOTYPE				

Number of Projects: 1			Subtotal:	9,060	0	33,516
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SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-11

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
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Project Category: 23 - REMEDIATION

R/AT-1	MARY ANN MORAN	GEORGIA	36,021	0	9,085
(11113) Title: IDENTIFICATION AND CHARACTERIZATION OF ECOLOGICALLY RELEVANT LIGNIN-DEGRADING BACTERIA FROM COASTAL MARINE ENVIRONMENTS					

R/PS-03-97	DEBORAH D. ROSS	ILLINOIS/INDIANA	34,883	0	20,760
(11380) Title: BIOREMEDIATION OF SEDIMENTS CONTAMINATED BY POLYNUCLEAR AROMATIC HYDROCARBONS					

R/P-40	ROGER I. NEWELL	MARYLAND	58,001	0	52,704
(10967) Title: CAN INCREASING STOCKS OF OYSTERS IN CHESAPEAKE BAY SERVE TO IMPROVE WATER QUALITY					

R/MT-1	L. MARTON/J.T. MORRIS/M.	SOUTH CAROLINA	78,598	0	42,081
(11071) Title: DEVELOPING THE FOUNDATIONS OF A HEAVY METAL WASTE PROCESSING TECHNOLOGY BY GENETIC ENGINEERING OF SPARTINA ALTERNIFLORA FOR CONSTRUCTION WETLANDS					

R/B-13	EVELYN J. LESSARD	WASHINGTON	52,800	0	24,097
(10745) Title: PROTOZOAN ENHANCEMENT OF BACTERIAL DEGRADATION IN MARINE SEDIMENTS					

Number of Projects:	5	Subtotal:	260,303	0	148,727
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SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-12

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
Project Category: 31 - ECOSYSTEM-BASED MANAGEMENT					
E/70-91 (10510)	PAULA CULLENBERG	ALASKA Title: CONTINUATION OF UNIVERSITY-BASED MARINE RESOURCE OBSERVER TRAINING	0	388,900	0
R/07-21 (10981)	TERRANCE J. QUINN II	ALASKA Title: LENGTH-BASED POPULATION MODEL FOR HARD-TO-AGE INVERTEBRATE POPULATIONS	24,098	0	15,257
R/07-22 (11397)	BRUCE FINNEY	ALASKA Title: LONG-TERM VARIABILITY IN ALASKAN SOCKEYE SALMON ABUNDANCE	54,992	0	0
R/06-36 (11400)	A. J. PAUL	ALASKA Title: REPRODUCTIVE BIOLOGY OF BROWN KING CRAB	72,618	0	0
R/08-08 (11401)	MICHAEL CASTELLINI	ALASKA Title: CONDITION AND HEALTH OF ALASKAN SEALS AND SEA LIONS	37,272	0	0
R/CZ-134 (11111)	GREG RAU	CALIFORNIA Title: BIOCHEMICAL BASIS OF SPERM-EGG RECOGNITION IN PENAEOIDEAN SHRIMP	47,297	0	26,862
R/F-171 (11454)	GRAHAM E. FORRESTER	CALIFORNIA Title: TRACE ELEMENTAL FINGERPRINTING OF OTOLITHS USING ICPS-MS TO DETERMINE THE POPULATION STRUCTURE OF MARINE FISHES	21,278	0	22,336
R/F-170 (11457)	RONALD S. BURTON	CALIFORNIA Title: RECRUITMENT PATTERNS IN RED SEA URCHINS: A POPULATION GENETICS APPROACH	24,478	0	30,380
R/CZ-137 (11458)	NICHOLAS A. WELSCHMEYER	CALIFORNIA Title: THE EFFECTS OF COASTAL FOG ON PLANKTONIC PRODUCTION AND FOOD WEB STRUCTURE	0	0	0
R/CZ-138 (11459)	MICHAEL M. MULLIN	CALIFORNIA Title: INTERDECADAL CHANGE IN CALIFORNIA CURRENT ZOOPLANKTON-RETROSPECTIVE ANALYSES BY OPTICAL PLANKTON COUNTER	49,532	0	29,525

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-13

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
R/F-22-6PT (11477)	DENNIS POWERS	CALIFORNIA	0	43,000	0
Title: THE USE OF MOLECULAR TECHNIQUES TO DISSECT THE GENETIC ARCHITECTURE OF POLLOCK POPULATIONS: ANALYSIS OF MITOCHONDRIAL AND NUCLEAR GENES BY THE POLYMERASE CHAIN REACTION					
R/O-22-PT (11512)	J. SULLIVAN/D.M. CHECKLE	CALIFORNIA	0	11,364	0
Title: SYNTHESIS OF SABRE STUDIES OF ATLANTIC MENHADEN SPawning					
R/A-17 (11078)	HANS LAUFER	CONNECTICUT	61,745	0	32,029
Title: HORMONAL REGULATION OF MORPHOGENESIS AND REPRODUCTION IN MALE MORPHOTYPES OF SPIDER CRABS					
R/B-36 (11306)	CHARLES E. EPIFANIO	DELAWARE	15,342	0	29,763
Title: SETTLEMENT OF CRUSTACEAN LARVAE: THE ROLE OF BIOFILMS AND CHEMICAL CUES					
R/F-8 (11309)	TIMOTHY E. TARGETT	DELAWARE	15,322	0	21,292
Title: OPTIMAL NURSERY GROUND CONDITIONS FOR TWO SPECIES OF PARALICHTHYID FLOUNDERS: EXPERIMENTAL DETERMINATION OF THE EFFECTS OF PHYSICOCHEMICAL GRADIENTS					
R/F-9 (11310)	NANCY M. TARGETT	DELAWARE	13,590	0	79,463
Title: MIMICKING HORSESHOE CRAB EGGS: IN SEARCH OF AN ARTIFICIAL BAIT					
R/F-10 (11311)	CHARLES E. EPIFANIO	DELAWARE	25,050	0	50,140
Title: RECRUITMENT IN BUOYANCE-DRIVEN COASTAL SYSTEMS					
R/EA-12 (10361)	JACKSON ORIN BLANTON	GEORGIA	0	21,000	14,041
Title: SABRE: PHYSICAL OCEANOGRAPHY AND MODELLING					
R/FS-1 (11114)	J. O. BLANTON/P. G. VERI	GEORGIA	57,922	0	35,552
Title: SOURCES AND TRANSPORT MECHANISMS OF WHITE SHRIMP IN SOUTHEASTERN COASTAL WATERS					
R/HAB-4-PD (11570)	MAC V. RAWSON, JR.	GEORGIA	4,500	0	7,922
Title: MARINE RESOURCES UTILIZATION IN GEORGIA					
R/EP-6 (11357)	PIERRE FLAMENT	HAWAII	16,061	0	24,658
Title: ANALYSIS OF A 5-YEAR SERIES OF SURFACE TEMPERATURE IMAGES AROUND HAWAII					

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-14

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
R/FM-2 (11375)	KIM HOLLAND	HAWAII	35,783	0	76,752
Title: TIGER SHARK TRACKING II: ARCHIVING TRANSPONDING TRANSMITTERS TO MONITOR LONG-TERM MOVEMENTS					

R/FM-3 (11376)	KIM HOLLAND	HAWAII	17,146	0	35,466
Title: EVALUATION OF HARVEST REFUGIA II: EFFECTS OF FISHING PRESSURE ON FISH ASSEMBLAGE STRUCTURE AND MOVEMENTS					

R/CFB-19 (11002)	JOHN W. FLEEGER	LOUISIANA	51,020	0	18,874
Title: VERIFICATION OF THE UTILITY OF IMMUNOLOGICAL ASSAYS TO IDENTIFY AND QUANTIFY GUT CONTENTS OF MARINE PREDATORS					

R/FMD-134 (10173)	THOMAS D. KOCHER	MAINE/NEW HAMPSHIRE	97,000	0	23,982
Title: GENETIC STRUCTURE OF FISHERY-IMPACTED SPECIES IN THE NORTHWEST ATLANTIC					

R/FMD-122 (10175)	L. G. HARRIS	MAINE/NEW HAMPSHIRE	60,000	0	39,105
Title: DEVELOPMENT OF A SUSTAINABLE URCHIN FISHERY IN THE GULF OF MAINE					

R/FMD-247 (10188)	ROBERT L. VADAS	MAINE/NEW HAMPSHIRE	50,402	0	28,714
Title: ECOLOGY AND REPRODUCTIVE BIOLOGY OF GREEN SEA URCHINS					

R/FMD-241 (10972)	L. WATLING	MAINE/NEW HAMPSHIRE	40,150	0	9,786
Title: EFFECTS OF HABITAT ALTERATION ON FISHERY RECRUITMENT PROCESSES					

R/FMD-265 (11202)	DAVID W. TOWNSEND	MAINE/NEW HAMPSHIRE	0	80,000	0
Title: U.S. GLOBEC: BROAD-SCALE STUDIES OF NUTRIENTS AND PHYTOPLANKTON ON GEORGES BANK					

R/FMD-148 (11279)	W.H. WATSON/H.H. HOWELL	MAINE/NEW HAMPSHIRE	34,361	0	14,010
Title: AN ANALYSIS OF TRAP SATURATION AND THE BEHAVIORAL BASIS OF CATCHABILITY					

R/FMD-259 (11282)	I. KORNFIELD	MAINE/NEW HAMPSHIRE	61,719	0	22,745
Title: MOLECULAR GENETIC ANALYSIS OF CURRENT AND HISTORICAL STOCK STRUCTURE OF NORTHWEST ATLANTIC HADDOCK					

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-15

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
R/B-138 (11100)	FRANCIS JUANES	WOODS HOLE OCEANOGRAPHIC INST. Title: SCHOOL STRUCTURE AND INDIVIDUAL FEEDING BEHAVIOR OF BLUEFIN TUNA, THUNNUS THYNNUS	26,333	0	20,342
R/B-141 (11392)	R.T. HANLON	WOODS HOLE OCEANOGRAPHIC INST. Title: REPRODUCTIVE STRATEGIES & THEIR CONTRIBUTION TO GENETIC DIVERSITY & LIFE CYCLE FLEXIBILITY IN THE COMMERCIALY IMPORTANT SQUID, LOLIGO PEALEI	50,434	0	27,384
R/B-143 (11393)	L. P. MADIN	WOODS HOLE OCEANOGRAPHIC INST. Title: PREDATORY IMPACT OF LOBATE CTENOPHORES ON COMMERCIALY IMPORTANT FISHES AND THEIR PREY	46,529	0	23,532
R/B-142 (11394)	L. S. MULLINEAUX	WOODS HOLE OCEANOGRAPHIC INST. Title: BEHAVIORAL & HYDRODYNAMIC COMPONENTS OF POSTLARVAL BIVALVE TRANSPORT WITHIN COASTAL EMBAYMENTS	47,961	0	24,149
R/O-31 (11395)	A.R. SOLOW/J. H. STEELE	WOODS HOLE OCEANOGRAPHIC INST. Title: STATISTICAL MODELLING OF ENVIRONMENTAL EFFECTS ON RECRUITMENT IN GEORGES BANK HADDOCK	36,290	0	19,752
R/B-145-PT (11520)	PETER H. WIEBE	WOODS HOLE OCEANOGRAPHIC INST. Title: U.S. GLOBEC: BROAD-SCALE PATTERNS OF THE DISTRIBUTION OF ZOOPLANKTON AND NEKTON IN RELATION TO MICRO-SCALE AND COARSE-SCALE PHYSICAL STRUCTURE IN THE GEORGES BANK REGION	0	89,797	0
R/O-29-PT (11527)	JAMES H. CHURCHILL	WOODS HOLE OCEANOGRAPHIC INST. Title: EXAMINING LARVAL TRANSPORT AND RETENTION WITHIN THE BEAUFORT INDEX	0	11,480	0
R/FM-1 (10835)	JAMES R. BENCE/STEPHEN B MICHIGAN	MANAGEMENT STRATEGIES FOR THE GREAT LAKES RECREATIONAL SALMONID FISHERIES IN THE FACE OF ENVIRONMENTAL VARIABILITY	86,445	0	41,715
R/GLF-44 (11342)	MICHAEL MOORE/E. RUTHERF MICHIGAN	ECOLOGICAL AND ECONOMIC IMPACTS OF WATERSHED RESTORATION ON SALMONID PRODUCTIVITY IN LAKE MICHIGAN TRIBUTARIES	124,188	0	103,990
R/F-32 (10949)	KEWEN YIN	MINNESOTA Title: PREDICTING LAKE TROUT (SALVELINUS NAMAYCUSH) SPAWNING HABITAT ALONG THE NORTH SHORE OF LAKE SUPERIOR USING SIDE-SCAN SONAR	6,146	0	18,800

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-16

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
R/LR-39 (11242)	THANE WIBBELS	MISSISSIPPI/ALABAMA	28,985	0	18,905
Title: WIDESPREAD IMPLEMENTATION OF A SEXING TECHNIQUE FOR ENHANCING THE RECOVERY OF SEA TURTLE POPULATIONS					

R/N-9717 (11350)	JUDITH P. GRASSLE	NEW JERSEY	52,499	0	27,814
Title: EARLY SUMMER COASTAL UPWELLING: THE EFFECT ON SURFCLAM LARVAL ABUNDANCE AND SETTLEMENT					

R/F-9719 (11351)	ROBERT E. LOVELAND	NEW JERSEY	31,750	0	28,028
Title: THE RELATIONSHIP OF LIFE HISTORY AND HABITAT SELECTION TO A SUSTAINABLE HORSESHOE CRAB FISHERY IN DELAWARE BAY, NEW JERSEY					

R/FBM-18 (10987)	ROBERT K. COWEN	NEW YORK	74,052	0	44,375
Title: LARVAL EXCHANGE BETWEEN THE MAB AND SAB: TRANSPORT-MEDIATED RECRUITMENT OF ECONOMICALLY IMPORTANT MAB FISH					

R/FTD-4 (10988)	STEPHEN B. BRANDT	NEW YORK	59,718	0	38,053
Title: LINKING SPACE AND TIME SCALES OF FISH PRODUCTION MEASUREMENTS IN LAKE ONTARIO ADDING THE FOURTH DIMENSION					

R/FTD-5 (11272)	MARK B. BAIN	NEW YORK	40,000	0	20,528
Title: FEASIBILITY OF ASSESSING THE POPULATION STATUS OF ATLANTIC STURGEON THROUGH MONITORING OF JUVENILES					

R/MER-33 (10454)	M. H. POSEY	NORTH CAROLINA	12,585	0	21,097
Title: INTERACTIVE EFFECTS OF NUTRIENT ENHANCEMENT AND PREDATION ON ESTUARINE COMMUNITY TROPHIC STRUCTURE					

R/MRD-31 (11018)	J.B. GELLER/D.G. LINDQUI	NORTH CAROLINA	18,750	0	30,480
Title: SOURCE OF VERMILION SNAPPER AT REEFS IN SOUTHERN ONSLOW BAY, NORTH CAROLINA: INFERENCE FROM MOLECULAR POPULATION GENETICS					

R/MRD-33 (11019)	D.B. EGGLESTON/L. XIE	NORTH CAROLINA	0	0	33,874
Title: TESTING HYDRODYNAMIC PREDICTIONS OF LARVAL RECRUITMENT LIMITATION AND IDENTIFICATION OF EARLY JUVENILE "SOURCE" HABITATS					

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-17

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
R/MRD-35 (11020)	J.A. RICE/L.B. CROWDER	NORTH CAROLINA	16,338	0	14,310
Title: POPULATION CONSEQUENCES OF SIZE DEPENDENT PREDATOR-PREY INTERACTIONS: ARE THEY IMPORTANT?					
R/SAB-11 (11532)	JAMES A. RICE	NORTH CAROLINA	0	23,509	0
Title: ANALYSIS OF ATLANTIC MENHADEN OTOLITHS USING CHARACTERISTICS OF INDIVIDUALS DERIVED FROM OTOLITH ANALYSIS.					
R/SAB-12 (11533)	RICHARD B. FORWARD	NORTH CAROLINA	0	6,500	0
Title: TRANSPORT OF FISH LARVAE THROUGH A TIDAL INLET					
R/SAB-13 (11534)	RICHARD B. LUTICH, JR.	NORTH CAROLINA	0	7,784	0
Title: MODELING CIRCULATION AND LARVAL TRANSPORT THROUGH BEAUFORT INLET					
R/SAB-14 (11535)	FRANCISCO E. WERNER	NORTH CAROLINA	0	20,000	0
Title: PHYSICAL OCEANOGRAPHIC AND BIOLOGICAL MODELING					
R/SAB-8 (11536)	LARRY B. CROWDER	NORTH CAROLINA	0	17,500	0
Title: BIOLOGICAL MODELING AND SABRE SYNTHESIS					
R/ER-47 (11668)	PAUL A. FUERST/TED H. CA	OHIO	25,000	0	25,000✓
Title: THE GENETIC POPULATION STRUCTURE OF THE LAKE STURGEON ACIPENSER FULVESCENS					
R/OPF-46 (10287)	STEVEN A. BERKELEY	OREGON	34,469	0	0
Title: EFFECTS OF FISHING-INDUCED AGE TRUNCATION ON RECRUITMENT AND REPRODUCTIVE POTENTIAL IN BLACK ROCKFISH					
R/OPF-50 (10296)	DAVID B. SAMPSON	OREGON	28,386	0	16,899
Title: EVALUATING THE ACCURACY AND VALUE OF GROUND FISH STOCK ASSESSMENTS					
R/F-934 (10339)	JEREMY S. COLLIE	RHODE ISLAND	0	97,304	0
Title: MULTISPECIES MODELING OF THE GEORGES BANK FISH COMMUNITY					
R/F-9501 (10782)	JEREMY COLLIE	RHODE ISLAND	35,550	0	15,284
Title: PREDATOR-PREY MODELS OF NEW ENGLAND FISHERIES					

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-18

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
A/I-9502	JOSEPH DEALTERIS	RHODE ISLAND	12,891	0	2,863
(10799)	Title: OUTREACH: THE LINK BETWEEN FISHERIES RESEARCH AND SUSTAINABLE DEVELOPMENT OF FISHERY RESOURCES				
R/F-9504	LAWRENCE BUCKLEY	RHODE ISLAND	0	97,063	0
(11200)	Title: U.S. GLOBEC: DISPERSIVE AND ADVECTIVE INFLUENCES ON THE SURVIVAL OF COD AND HADDOCK ON GEORGES BANK				
R/SS-971	JON SUTINEN	RHODE ISLAND	29,415	0	18,855
(11419)	Title: THE USE OF CLOSED AREAS AS FISHERIES MANAGEMENT TOOL FOR NEW ENGLAND FISHERIES: ANA ANALYSIS OF THE IMPACT OF DISPLACED EFFORT.				
R/EM-951-A	PETRA STEGMANN	RHODE ISLAND	0	10,000	0
(11528)	Title: THE SYNTHESIS OF SEA-SURFACE TEMPERATURE MAPS WITH MODEL AND FIELD DATA IN THE SABRE STUDY AREA				
R/CO-2	C.A. BARANS/L. E. WENNER	SOUTH CAROLINA	49,137	0	18,786
(11072)	Title: SOURCES AND TRANSPORT MECHANISMS OF WHITE SHRIMP IN SOUTHEASTERN COASTAL WATERS.				
R/F-65	SCOTT A. HOLT	TEXAS	29,537	0	15,482
(10595)	Title: RECRUITMENT SUCCESS OF ESTUARINE-DEPENDENT MARINE FISHES: GROWTH AND NATURAL MORTALITY OF LARVAL AND JUVENILE RECRUITS				
R/F-63	DONALD A. HARPER, JR.	TEXAS	28,356	0	14,649
(10602)	Title: THE EFFECT OF PREY DENSITIES AND NURSERY HABITAT QUALITY ON BROWN SHRIMP RECRUITMENT SUCCESS				
R/ES-72	TERRY WHITLEDGE	TEXAS	0	58,129	0
(11318)	Title: INVESTIGATION OF THE ORIGIN AND DYNAMICS OF NUTRIENTS ON THE SOUTHEAST BERING SEA SHELF IN RELATION TO DOMINANT PHYSICAL AND BIOLOGICAL PROCESSES				
R/F-68	G.A. JACKSON/D.A. BROOKS	TEXAS	63,028	0	21,911
(11339)	Title: SIMULATION OF LARVAL TRANSPORT FROM THE TEXAS COASTAL OCEAN TO BAY				
R/CO-1	ARNOLDO VALLE-LEVINSON	VIRGINIA	23,954	0	24,209
(11290)	Title: PHYSICAL EXCHANGE PROCESSES AT THE CHESAPEAKE BAY MOUTH				

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-19

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
R/C0-2	GLEN H. WHELESS	VIRGINIA	28,538	0	16,406
(11291)	Title: PHYSICAL PROCESSES IN THE CHESAPEAKE BAY MOUTH AND THEIR RELATIONSHIPS TO BIOLOGICAL RECRUITMENT				
R/CF-34	R. N. LIPCIUS	VIRGINIA	57,000	0	28,509
(11292)	Title: SOURCES AND SINKS FOR THE BLUE CRAB STOCK: LINKAGES BETWEEN TRANSPORT, DISPERSAL, HABITAT FEATURES AND YEAR-CLASS STRENGTH				
R/CF-35	SIMON R. THORROLD	VIRGINIA	58,729	0	34,671
(11293)	Title: APPLICATION OF OTOLITH ELEMENTAL FINGERPRINTING AND MICROSATELLITE DNA MARKERS AS NATURAL TAGS OF YOUNG-OF-THE-YEAR WEAKFISH (CYNOSCION REGALIS) ALONG THE U.S. ATLANTIC COAST				
COP/SAB-97-1	GLEN H. WHELESS	VIRGINIA	0	7,210	0
(11548)	Title: SYNTHESIS OF SABRE-RELATED RESEARCH RESULTS				
R/F-97	D. R. GUNDERSON	WASHINGTON	0	57,239	0
(10725)	Title: BIOLOGY AND MANAGEMENT OF ROCKFISH STOCKS				
R/F-110	ROBERT FRANCIS	WASHINGTON	49,700	0	26,390
(10759)	Title: NATURAL SCALES OF VARIABILITY IN COASTAL MARINE ECOSYSTEMS				
R/F-110	ROBERT FRANCIS	WASHINGTON	0	6,696	0
(10759)	Title: NATURAL SCALES OF VARIABILITY IN COASTAL MARINE ECOSYSTEMS				
R/F-115	GORDON L. SWARTZMAN	WASHINGTON	74,700	0	26,524
(10978)	Title: FISH SCHOOL SPECIES IDENTIFICATION BY ACOUSTIC BACKSCATTER				
R/FO-10	ROBERT C. FRANCIS	WASHINGTON	0	29,300	0
(11265)	Title: HABITAT DIFFERENCES IN FRONTAL REGIONS AROUND THE PRIBILOF ISLANDS AND THEIR IMPORTANCE TO JUVENILE POLLOCK GROWTH AND SURVIVAL IN THE BERING SEA				
R/R-1	ARMSTRONG/FRANCIS/GUNDER	WASHINGTON	0	869,986	0
(11611)	Title: PNCERS; NATURAL AND ANTHROPOGENIC VARIABILITY IN NORTHEASTERN PACIFIC COASTAL SYSTEMS				

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-20

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
R/LR-73	RUTH B. PHILLIPS	WISCONSIN	25,849	0	37,881
(11150) Title: APPLICATION OF MICROSATELLITES TO STOCK IDENTIFICATION IN LAKE SUPERIOR LAKE TROUT					

R/LR-72	JAMES F. KITCHELL	WISCONSIN	57,648	0	66,066
(11151) Title: SUSTAINABILITY OF THE LAKE SUPERIOR FISH COMMUNITY: AN ANALYSIS OF OPPORTUNITIES AND CONSTRAINTS					

R/31-2-96	JAMES P. BEETS/L. MUEHLS	PUERTO RICO	23,078	0	16,412
(11140) Title: SIGNIFICANCE OF SEAGRASS HABITAT TO CORAL REEF FISHERIES AND MARINE FISHERIES RESERVES (MFR)					

R-21-1-96	JORGE E. CAPELLA	PUERTO RICO	22,660	0	10,100
(11141) Title: LARVAL DISPERSION OFF LA PARGUERA: A MODELING STUDY					

R-31-1-96	JOSHUA SLADEK NOWLIS	PUERTO RICO	20,140	0	38,894
(11142) Title: MATHEMATICAL/COMPUTER ANALYSES OF THE DESIGN AND FUNCTION OF MARINE FISHERIES RESERVES					

R-31-3-96	RICHARD S. APPELDOORN	PUERTO RICO	45,545	0	48,505
(11436) Title: REEF FISH POPULATION MOVEMENT STUDIES FOR DESIGN AND MANAGEMENT OF MARINE FISHERIES RESERVES					

Number of Projects: 86			Subtotal:	2,545,991	1,953,761 1,745,078

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-21

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
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Project Category: 32 - ANTICIPATING SOCIAL AND ECONOMIC IMPACTS

R/14-16 (11396)	MATTHEW D. BERMAN	ALASKA	102,378	0	0
Title: MONITORING EFFECTS OF IFQ'S IN THE ALASKA HALIBUT AND SABLEFISH FISHERIES					
R/F-169 (11463)	LOUIS W. BOTSFORD	CALIFORNIA	158,764	0	95,443
Title: BIOECONOMIC MANAGEMENT MODEL OF A METAPOPULATION: THE RED SEA URCHIN					
R/P-7 (11313)	LEE G. ANDERSON	DELAWARE	3,020	0	32,842
Title: ECONOMIC ANALYSIS OF VESSEL BUY-BACK PROGRAMS					
R/LR-E-16 (11225)	J. W. MILON	FLORIDA	50,794	0	44,086
Title: A BIOECONOMIC ANALYSIS OF FLORIDA'S SPINY LOBSTER TRAP CERTIFICATE PROGRAM.					
R/LR-E-17 (11226)	S. SMITH	FLORIDA	61,807	0	32,973
Title: THE IMPACTS OF THE 1995 FLORIDA ENTANGLEMENT BAN ON COMMERCIAL FISHING FAMILIES					
R/FMD-255 (11280)	JAMES ACHESON/RALPH TOWN MAINE/NEW HAMPSHIRE		20,721	0	21,170
Title: CASE STUDIES IN CO-MANAGEMENT OF MARINE FISHERIES					
R/SPD-4 (11271)	THEODORE C. BESTOR	NEW YORK	84,995	0	62,051
Title: JAPANESE MARKETS FOR SEAFOOD PRODUCTS FROM THE NORTHEASTERN UNITED STATES					
R/BS-8 (11021)	J. C. JOHNSON/M.K. ORBAC	NORTH CAROLINA	15,130	0	13,653
Title: LONGITUDINAL ANALYSIS OF EMERGING FISHERIES POLICY					
R/BS-9 (11022)	D. GRIFFITH/J. C. JOHNSO	NORTH CAROLINA	22,292	0	0
Title: MANAGING THE SOCIAL HEALTH OF NORTH CAROLINA FISHERIES IN A CONTEXT OF CONFLICT.					
R/MRD-36 (11023)	D. GRIFFITH/J. JOHNSON/B.	NORTH CAROLINA	16,522	0	0
Title: DEMAND ESTIMATION OF FINFISH SPECIES IN THE MID AND SOUTH ATLANTIC AND GULF REGIONS FOR IMPROVED POLICY ANALYSIS AND DESIGN					
R/FDF-6 (10278)	SUSAN S. HANNA	OREGON	23,453	0	14,062
Title: AN ECONOMIC HISTORY OF THE NEW ENGLAND AND PACIFIC GROUND FISH FISHERIES					

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-22

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
R/FDF-3 (10282)	SHELIA M. CORDRAY	OREGON	30,184	0	9,010
Title: RESOURCE RELIANCE IN A SOCIAL CONTEXT: HUMAN CAPITAL IN FISHING COMMUNITIES, BUSINESSES, AND FAMILIES					
R/FDF-5 (10283)	ANISA M. ZVONKOVIC	OREGON	41,793	0	18,344
Title: PATTERNS OF INVOLVEMENT IN BUSINESS AND FAMILY LIFE AMONG FISHING FAMILIES: INDIVIDUAL, MARITAL, AND FAMILY WELL-BEING					
R/OPF-48 (10290)	SUSAN S. HANNA	OREGON	10,407	0	14,062
Title: THE IMPACT OF ACCESS LIMITATION ON A SYSTEM OF LINKED FISHERIES					
R/SS-9504 (10788)	HELEN MEDERER	RHODE ISLAND	12,360	0	20,458
Title: GROUND FISH CRISIS IN NEW ENGLAND FISHERIES: FAMILY STRESS, COPING AND ADAPTATION UNDER CHANGING REGULATIONS					
A/EP-2 (11287)	J. VAN MONTFRANS	VIRGINIA	18,920	0	10,282
Title: BRINGING BLUE CRAB ECOLOGY AND ISSUES TO THE PUBLIC: OUTREACH THROUGH A MULTI-MEDIA APPROACH					
R/PS-46 (11155)	RICHARD C. BISHOP	WISCONSIN	57,038	0	22,454
Title: SUSTAINABILITY AND THE ECONOMICS OF FISHERIES MANAGEMENT: A LAKE SUPERIOR CASE STUDY					
Number of Projects: 17			Subtotal:	730,578	0 410,890

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-23

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
Project Category: 33 - MINIMIZING BYCATCH					
R/LR-B-40 (11227)	K. BURNS	FLORIDA	60,000	0	30,000
Title: CRITICAL EVALUATION OF FISH ABDOMEN DEFLATION AS A MEANS OF ENHANCING SURVIVAL OF UNDERSIZED CATCH IN THE REEF FISH FISHERY					
R/LR-B-41 (11228)	W. CARR	FLORIDA	51,743	0	40,920
Title: ROCK SHRIMP ATTRACTION TO ODORS AND TRAPS: COLLABORATION WITH A FISHERY TO DEVELOP LESS DESTRUCTIVE HARVESTING METHODS					
R/LR-B-42 (11229)	N. EHRHARDT	FLORIDA	42,163	0	19,888
Title: IMPACTS OF TURTLE EXCLUDER DESIGNS (TED) AND BYCATCH REDUCTION DESIGNS (BRD) ON OVERALL FINFISH BYCATCH REDUCTION AND THEIR RELATIVE EFFECTS ON MANAGEMENT STRATEGIES ADOPTED IN DIRECTED FINFISH FISHERIES					
A/A-19 (11644)	RONALD BEARD/KATE WYNNE	MAINE/NEW HAMPSHIRE	0	73,743	0
Title: ATLANTIC LARGE WHALE TAKE REDUCTION OUTREACH					
R/SS-9502 (10784)	JON SUTINEN	RHODE ISLAND	39,480	0	22,125
Title: SPECIES SELECTION AND ECONOMIC PERFORMANCE IN THE NEW ENGLAND GROUND FISH FISHERY					
R/F-9502 (10789)	JOSEPH DEALTERIS	RHODE ISLAND	34,706	0	20,278
Title: SPECIES SELECTIVITY IN THE NEW ENGLAND GROUND FISH FISHERIES: BEHAVIOR OF THE FISH AND FISHERS					
A/F-971 (11638)	JOSEPH DEALTERIS	RHODE ISLAND	0	24,700	0
Title: ATLANTIC LARGE WHALE TAKE REDUCTION PLAN OUTREACH: MID ATLANTIC REGION PASS-THROUGH					
R/F-121 (11217)	JULIA K. PARRISH	WASHINGTON	36,800	0	48,042
Title: LINKING DISPERSAL TO SURVIVAL: COMMON MURRES AND GILL NET FISHERIES					
Number of Projects: 8			Subtotal:	264,892	98,443 181,253

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-24

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
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Project Category: 34 - ENHANCING WILD STOCKS THROUGH AQUACULTURE

R/O2-18	A.J. GHARRETT/W.W. SMOKE	ALASKA	63,839	0	14,876
(10982)	Title: CONSERVING SALMON BIODIVERSITY: OUTBREEDING DEPRESSION IN PINK SALMON				

R/LR-A-18	DENNIS M. HANISAK	FLORIDA	5,319	0	2,660
(10012)	Title: DEVELOPMENT OF SEAGRASS NURSERY TECHNIQUES				

R/F-112	PAUL BENTZEN	WASHINGTON	37,400	0	34,395
(10743)	Title: CONSERVATION GENETICS OF PACIFIC SALMON				

Number of Projects:	3		Subtotal:	106,558	0	51,931
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SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-25

<u>Project Number</u>	<u>PI</u>	<u>Program</u>	<u>Sea Grant</u>	<u>Pass Thru</u>	<u>Matching</u>
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Project Category: 41 - ADMINISTRATION AND COORDINATION

R/AQ-97060	LARRY RUWLAND	INDEPENDENT/OTHER	59,520	0	0
(11481) Title: STIMULATING AN ORNAMENTAL AQUACULTURE INDUSTRY IN HAWAII'S COASTAL COMMUNITIES: A PLAN TO ACHIEVE RURAL ECONOMIC RECOVERY IN THE WAKE OF THE COLLAPSE OF HAWAII'S SUGAR INDUSTRY					

Number of Projects:	1	Subtotal:	59,520	0	0

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-26

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
Project Category: 42 - DEVELOPING AND IMPROVING GROW-OUT SYSTEMS					
R/F-15 (11184)	B. R. PETROSKY/W. H. DAN	DELAWARE Title: DEVELOPMENT OF AQUACULTURE PRODUCTION METHODS APPROPRIATE TO THE MID-ATLANTIC REGION	50,000	0	32,583
R/LR-A-20 (11232)	N. BLAKE	FLORIDA Title: AQUACULTURE AND MARKETING OF THE FLORIDA BAY SCALLOP IN CYRSTAL RIVER, FLORIDA	71,369	0	40,317
R/AQ-2-PD (11508)	RANDAL L. WALKER/STEVE V	GEORGIA Title: UTILIZING AQUACULTURE TO PRODUCE COMMERCIAL QUALITY OYSTERS IN GEORGIA VIA CONTROLLING OYSTER SPAT FOULING	9,999	0	0✓
R/AQ-61 (11358)	CLYDE S. TAMARU	HAWAII Title: ASSESSMENT AND CHARACTERIZATION OF WATER QUALITY IN TRADITIONAL HAWAIIAN FISHPONDS	26,000	0	0
R/AQ-58 (11359)	CHRISTOPHER L. BROWN	HAWAII Title: COST-EFFECTIVE METHODS OF REEF FISH CULTURE	35,520	0	14,083
R/AQ-60 (11377)	C. R. ERTEKIN/M. A. MERR	HAWAII Title: MOLOKIA FISHPONDS: CIRCULATION STUDIES	50,668	0	0
R/AQ-62 (11568)	CHARLES E. HELSLEY	HAWAII Title: RESEARCH DIRECTED AT ESTABLISHING A VIABLE MARINE AQUACULTURE CAPABILITY IN THE STATE OF HAWAII	2,000	264,000	31,250
R/A-46 (11004)	RONALD F. MALONE	LOUISIANA Title: MICRO-DESIGN OF MEDIA FOR USE IN FLOATING BEAD FILTERS IN RECIRCULATING AQUACULTURE SYSTEMS	57,525	0	12,485
R/A-47 (11005)	KELLY A. RUSCH	LOUISIANA Title: DEVELOPMENT OF PRODUCTION GUIDELINES FOR AND EVALUATION OF MICROALGAL PRODUCTS FROM A HYDRAULICALLY INTEGRATED SERIAL TURBIDOSTAT ALGAL REACTOR (HISTAR)	80,627	0	18,231
R/A-48-PD (11665)	RONALD F. MALONE	LOUISIANA Title: ESTABLISHMENT OF NATIONAL GUIDELINES FOR CLASSIFICATION AND COMPETITIVE EVALUATION OF INTEGRATED MARINE RECIRCULATION AQUACULTURE SYSTEM DESIGNS	12,336	0	8,904✓

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-27

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
R/FMD-144	STEPHEN H. JONES	MAINE/NEW HAMPSHIRE	63,657	0	22,402
(11277) Title: MICROBIOLOGICAL OPTIMIZATION OF SUMMER FLOUNDER CULTURE IN A RECIRCULATING AQUACULTURE SYSTEM					
R/FMD-146	C.W. WALKER/M. LESSER	MAINE/NEW HAMPSHIRE	88,447	0	40,419
(11278) Title: DEVELOPING A SECOND, HIGH QUALITY CROP FOR THE NORTHEASTERN GREEN SEA URCHIN USING LAND-BASED AQUACULTURE					
R/FMD-261	R.L. VEDAS/W. WRIGHT	MAINE/NEW HAMPSHIRE	49,926	0	16,576
(11283) Title: IMPACTS OF ROCKWEED HARVESTING					
A-02	CLIFFORD A. GOUDEY	MASSACHUSETTS INST. OF TECH.	72,800	0	41,500
(11093) Title: CENTER FOR FISHERIES ENGINEERING					
E-21	C. GOUDEY/C. CHRYSOSTOM	MASSACHUSETTS INST. OF TECH.	30,000	0	38,000
(11544) Title: OPERATIONAL OPTIMIZATION OF AN OCEAN-BASED AQUACULTURE FACILITY					
R/AF-32	H.DANIELS/C.SULLIVAN/R.H	NORTH CAROLINA	62,845	0	0
(11025) Title: AQUACULTURE OF SOUTHERN FLOUNDER; REPRODUCTION, LARVICULTURE AND GROWOUT					
R/SS-9505	JAMES ANDERSON	RHODE ISLAND	27,615	0	17,771
(10785) Title: ECONOMIC ANALYSIS OF LAND-BASED AQUACULTURE OF SUMMER FLOUNDER					
A/F-9503	JOSEPH DEALTERIS	RHODE ISLAND	33,668	0	15,732
(10798) Title: LAND-BASED SUMMER FLOUNDER AQUACULTURE: TECHNICAL ASSISTANCE TO AN EMERGING INDUSTRY AND EDUCATING THE PUBLIC					
R/A-26	J.S. HOPKINS/PAUL A.	SAN SOUTH CAROLINA	96,246	0	67,477
(10264) Title: DEVELOPMENT OF ENVIRONMENTALLY-FRIENDLY COASTAL AQUACULTURE TECHNOLOGIES					
R/M-58	PHILLIP LEE	TEXAS	69,947	0	50,398
(11329) Title: DEVELOPMENT OF A COMPUTER CONTROLLED, INTEGRATED DEPHOSPHATIZATION/DENITRIFICATION FILTRATION SYSTEM					
R/M-60-PD	RONALD ROSATI/GARY MCBRY	TEXAS	30,099	0	14,608✓
(11511) Title: SHRIMP FARM EFFLUENT CHARACTERIZATION AND MITIGATION.					

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-28

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
R/M-59-PD (11510)	W. H. NEILL/D. M. GATLIN	TEXAS	31,191	0	15,164✓
Title: A MODEL FOR IMPROVED MANAGEMENT OF INTENSIVE AQUACULTURE SYSTEMS.					
R/A-29 (11289)	A.M. DEITRICH/D.L. GALLA	VIRGINIA	40,000	0	26,606
Title: INVESTIGATION OF TOXICITY TO SHELLFISH IN AQUACULTURE FACILITIES ON THE EASTERN SHORE OF VIRGINIA FROM WATER QUALITY AND HYDROLOGICAL IMPACTS					
R/AQ-22 (10132)	JEFFREY A. MALISON	WISCONSIN	98,475	0	53,580
Title: ASSESSMENT AND MANAGEMENT OF PHYSIOLOGICAL STRESS IN COOL-WATER FISH CULTURE					
R/AQ-97053 (11478)	KELLY A. RUSCH	INDEPENDENT/OTHER	125,431	0	0
Title: DESIGN AND EVALUATION OF A COMMERCIAL SCALE HYDRAULICALLY INTEGRATED SERIAL TURBIDOSTAT ALGAL REACTOR (HISTAR)					
R/AQ9-97098 (11479)	THOMAS B. MCCORMICK	INDEPENDENT/OTHER	45,000	0	0
Title: DEVELOPMENT OF WHITE SEABASS FARMING IN SOUTHERN CALIFORNIA					
R/AQ-96003 (11480)	EDWARD GLENN	INDEPENDENT/OTHER	36,630	0	0
Title: TETRASPORE CULTURE ON GRACILARIA PARVISPORE: COMPLETING THE LIFE CYCLE IN AQUACULTURE					
R/AQ-96094 (11482)	CHRISTOPHER LANGDON	INDEPENDENT/OTHER	76,836	0	0
Title: POLYCULTURE OF DULSE AND RED ABALONE UNDER LIMITED FLOW CONDITIONS					
R/SBIR7-01 (11516)	DOUGLAS DENNAN	INDEPENDENT/OTHER	49,987	0	0
Title: DEVELOPMENT OF AN EXTREMELY LOW WATER-LOSS RECIRCULATING FLOATING BEAD FILTER FOR BIOFILTRATION AND SOLIDS CAPTURE ON RECIRCULATING MARINE CULTURE SYSTEMS					
R/SBIR7-06 (11526)	STUART NEMSER	INDEPENDENT/OTHER	199,700	0	0
Title: PERFLUOROMEMBRANES FOR LOW COST OXYGEN ENRICHMENT OF AQUACULTURE					
R/SBIR7-07 (11541)	THOMAS R. ZEIGLER	INDEPENDENT/OTHER	199,772	0	95,880
Title: BROODSHRIMP NUTRITION: COLD PROCESSED, STABILIZED, COMPLETE FEEDS FOR MATURATION					
Number of Projects: 31			Subtotal:	1,840,691	264,000 635,290

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-29

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
Project Category: 43 - IMPROVING HUSBANDRY					
R/F-11 (11573)	PATRICK M. GAFFNEY	DELAWARE	93,059	0	0
Title: PHYSIOLOGICAL AND GENETIC CORRELATES OF DERM DISEASE RESISTANCE IN THE EASTERN OYSTER: AN INTERDISCIPLINARY APPROACH					
R/AQ-1-PD (11506)	MARC E. FRISCHER	GEORGIA	20,000	0	21,200✓
Title: ESTABLISHMENT OF A SHRIMP DISEASE DIAGNOSIS CENTER AND SURVEY OF GEORGIA COASTAL WATERS FOR VIRUSES ASSOCIATED WITH SHRIMP AQUACULTURE					
R/AQ-46 (10608)	PHILIP C. LOH	HAWAII	40,433	0	45,163
Title: CONTINUING STUDIES ON THE DEVELOPMENT AND EVALUATION OF VIRUS DETECTION AND CELL CULTURE TECHNOLOGIES FOR VIRAL DISEASES OF THE PENAEID SHRIMP					
R/UNKNOWN (11662)	R.COOPER/J. LAPEYRE/T.TI	LOUISIANA	108,987	0	56,620
Title: COMBINE USE OF A LYTIC PEPTIDE AND A PROTEASE INHIBITOR: A NOVEL APPROACH TO ELIMINATE PERKINSUS MARINUS IN EASTERN OYSTERS					
R/FMD-243 (10974)	B. BARBER	MAINE/NEW HAMPSHIRE	43,462	0	22,156
Title: IMPACTS OF THE PARASITE BONAMIA OSTREAE ON THE EUROPEAN OYSTER AND STRATEGIES FOR COMMERCIAL CULTURE					
R/F-86 (11261)	GERARDO R. VASTA	MARYLAND	50,001	0	20,797
Title: THE ROLE OF IRON AND HOST-DERIVED GROWTH FACTORS IN REGULATING GENE EXPRESSION OF THE OYSTER PARASITE PERKINSUS MARINUS: THE BASIS FOR PARASITE PROLIFERATION INHIBITION STRATEGIES					
R/ODR-9 (11574)	ROBERT S. ANDERSON	MARYLAND	88,357	0	43,758
Title: COMPARATIVE PATHOGENESIS OF P. MARINUS DISEASE IN BIVALVES: DEVELOPMENT OF PREVENTION STRATEGIES FOR C. VIRGINICA					
R/ODR-10 (11575)	CHRISTOPHER F. DUNGAN	MARYLAND	64,885	0	39,366
Title: MONOCLONAL ANTIBODY ELISA ASSAY FOR DETECTION OF PERKINSUS MARINUS IN OYSTER TISSUES					

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-30

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
R/ODR-11 (11576)	DR. GERADO R. VASTA	MARYLAND	131,040	0	59,635
Title: A MOLECULAR APPROACH TO ENVIRONMENT STUDIES ON PERKINSUS MARINUS. TRANSMISSION DYNAMICS OF INFECTION IN CHESAPEAKE BAY					
R/ODR-12 (11577)	GERARDO R. VASTA	MARYLAND	122,372	0	59,635
Title: TAXONOMIC AND GENETIC CHARACTERIZATION OF PERKINSUS MARINUS. DEVELOPMENT OF MUTAGENESIS AND GENE TRANSFER SYSTEMS WITH APPLICATION TO THERAPEUTIC STRATEGIES					
R/ODR-13 (11578)	MICHAEL W. FINCHMAN	MARYLAND	34,966	0	16,836
Title: VIDEO DOCUMENTARY ON THE RISE, FALL AND RESTORATION OF THE OYSTER FISHERY IN CHESAPEAKE BAY					
R/ODR-14 (11579)	K. T. PAYNTER/H. LENIHAN	MARYLAND	125,600	0	39,183
Title: EXAMINING THE ECOLOGICAL PHYSIOLOGY OF OYSTERS ON A REEF HABITAT: INTERACTION OF DISSOLVED OXYGEN AND DISEASE DYNAMICS					
R/ODR-05 (11580)	S. JORDAN/G. SMITH	MARYLAND	26,483	0	25,678
Title: DEVELOPMENT AND MANAGEMENT APPLICATIONS OF A DUAL-DISEASE (MSX AND DERM) MODEL FOR CHESAPEAKE BAY OYSTER POPULATION					
RB-42 (11091)	DONALD P. CHENEY	MASSACHUSETTS INST. OF TECH.	23,223	0	15,776
Title: NOVEL POLYSACCHARIDE PRODUCTION THROUGH SEAWEED GENETIC MANIPULATION AND CELL CULTURE TECHNOLOGY					
R/LR-34 (10924)	R. K. BUDDINGTON	MISSISSIPPI/ALABAMA	52,781	0	29,827
Title: DEVELOPMENT OF NOVEL, LOW-COST DIET FOR LARVAL FISH AND CRUSTACEANS					
R/LR-37 (11210)	DAVID B. ROUSE/WILLIAM H	MISSISSIPPI/ALABAMA	0	330,000	46,612
Title: Coastal Alabama Seafood Harvest - Phase II					
R/LR-38 (11237)	DOUGLAS R. WATSON	MISSISSIPPI/ALABAMA	46,715	0	39,555
Title: DEVELOPMENT OF A METHOD FOR CONTROLLING THE MOLT CYCLE OF THE BLUE CRAB, CALLINectes Sapidus					
UNKNOWN (11626)	S. K. ALLEN, JR.	NEW JERSEY	12,437	0	7,024
Title: HATCHERY AND FIELD REARING OF PEDIGREED FAMILITES					

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-31

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
UNKNOWN (11627)	S.K. ALLEN, JR. M. LUCKE	NEW JERSEY	31,976	0	16,714
Title: BROOD STOCK MANAGEMENT OF DISEASE RESISTANT STOCKS IN THE HATCHERY					
R/ATD-8 (10989)	JOSEPH K. BUTTNER	NEW YORK	86,768	0	51,804
Title: IMPACTS AND MITIGATION OF COMMERCIAL NET PEN CULTURE IN THE GREAT LAKES					
R/A-9501 (10777)	DAVID BENGTSON	RHODE ISLAND	58,240	0	20,392
Title: INCREASING HATCHERY PRODUCTION OF SUMMER FLOUNDER LARVAE THROUGH IMPROVEMENTS IN FEEDING AND NUTRITION					
R/A-9502 (10778)	JENNIFER SPECKER	RHODE ISLAND	48,999	0	30,916
Title: CONTROLLING THE TIMING OF METAMORPHOSIS IN CULTURED FLOUNDER					
R/A-9503 (10779)	GRACE KLEIN-MACPHEE	RHODE ISLAND	30,056	0	18,421
Title: GROWTH ACCELERATION IN EARLY JUVENILE STAGE SUMMER FLOUNDER					
R/A-25 (10261)	T.I. SMITH	SOUTH CAROLINA	89,546	0	50,218
Title: IMPROVEMENT OF HYBRID STRIPED BASS AQUACULTURE THROUGH DEVELOPMENT OF CULTURED BROODSTOCKS AND IMPROVED SPAWNING TECHNIQUES: PHASE II					
R/ER-14 (11074)	L.E. BURNETT	SOUTH CAROLINA	59,000	0	64,500
Title: ENVIRONMENTAL HYPOXIA AND CO2 INFLUENCE THE PROPAGATION, THE PHYSIOLOGY, AND THE BIOCHEMISTRY OF INFECTIONS OF PERKINSUS MARINUS IN OYSTERS					
ROD-2 (11558)	D. BUSHEK/K. REECE/J. GR	SOUTH CAROLINA	93,172	0	46,633
Title: MOLECULAR GENETIC ANALYSIS OF PERKINSUS MARINUS: COMPARISONS AMONG LABORATORY ISOLATES AND NATURAL POPULATIONS					
R/M-41 (10591)	G. JOAN HOLT	TEXAS	29,682	0	14,841
Title: HATCHERY TECHNOLOGY FOR THE UTILIZATION OF ARTIFICIAL DIETS IN INTENSIVE CULTURE OF FISH LARVAE					
ETC-39 (11543)	RONALD ROSATI	TEXAS	27,953	0	28,650
Title: YY-MALE TILAPIA PRODUCTION					

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-32

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
R/OD-98-2 (11559)	M. FAISAL/S. KAATTARI	VIRGINIA	51,471	0	25,735
Title: PHYSIOLOGICAL AND GENETIC CORRELATES OF DERMO DISEASE RESISTANCE IN THE EASTERN OYSTER: AN INTERDISCIPLINARY APPROACH					
R/OD-98-1 (11560)	M. FAISAL/S.L. KAATTARI	VIRGINIA	167,369	0	83,685
Title: EXTRACELLULAR PROTEINS FROM PERKINSUS MARINUS: ANALYSIS OF PATHOGENIC MECHANISMS AND DEVELOPMENT OF ENHANCED DIAGNOSTICS					
R/OD-98-3 (11561)	E. HOFMANN	VIRGINIA	23,080	0	57,310
Title: DEVELOPMENT AND MANAGEMENT APPLICATIONS OF A DUAL-DISEASE (MSX AND DERMO) MODEL FOR CHESAPEAKE BAY OYSTER POPULATIONS					
R/A-72 (10976)	MARSHA LANDOLT	WASHINGTON	32,000	0	20,657
Title: FURTHER DEVELOPMENT OF A SUBUNIT VACCINE FOR CONTROL OF BACTERIAL KIDNEY DISEASE					
R/UNKNOWN (11571)	DANIEL P. CHENEY	WASHINGTON	142,112	0	71,116
Title: MORTALITY OF THE PACIFIC OYSTER, CRASSOSTREA GIGAS: HEALTH SCREENING, ENVIRONMENTAL LINKS AND MANAGEMENT OPTIONS					
A/AS-37 (11146)	FRED P. BINKOWSKI	WISCONSIN	33,554	0	57,225
Title: AQUACULTURE DEVELOPMENT WITHIN THE GREAT LAKES REGION: THE SEA GRANT INITIATIVE					
R/SBIR7-04 (11517)	MR. DAVID MAUS	INDEPENDENT/OTHER	50,000	0	0
Title: CONTROLLED SPAWNING AND LARVICULTURE OF FLORIDA POMPAÑO					
Number of Projects: 35			Subtotal:	2,119,779	330,000 1,226,438

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-33

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
Project Category: 44 - ENHANCING AQUACULTURE THROUGH BIOTECHNOLOGY					
R/A-98 (10638)	GARY MOBERG	CALIFORNIA	51,491	0	49,422
Title: ENDOCRINE MANIPULATION OF FEMALE STURGEON REPRODUCTION					
R/A-104 (11112)	FRED GRIFFIN	CALIFORNIA	30,832	0	0
Title: BIOCHEMICAL BASIS OF SPERM-EGG RECOGNITION IN PENAEOIDEAN SHRIMP					
R/A-105 (11461)	DENNIS POWERS	CALIFORNIA	0	0	0
Title: GENETIC ENGINEERING OF FISH WITH HEMOGLOBINS THAT FACILITATE SURVIVAL UNDER OXYGEN DEPLETED ENVIRONMENTS					
R/A-106 (11462)	SERGE I. DOROSHOV	CALIFORNIA	0	0	0
Title: ENHANCING SPAWNING PERFORMANCE OF WHITE STURGEON					
R/A-18 (11252)	THOMAS T. CHEN	CONNECTICUT	74,388	0	44,768
Title: PRODUCTION OF FAST-GROWING TRANSGENIC SHRIMP AND CRAYFISH BY PANTROPIC DEFECTIVE VIRAL VECTORS					
R/AQ-59 (11378)	PIERA S. SUN	HAWAII	20,083	0	21,606
Title: MOLECULAR-CLONING OF A CYTOPLASMIC ACTIN PROMOTER GENE FROM SHRIMP PENAEUS VANNAMEI					
R/OA-3 (11006)	JOHN SUPAN	LOUISIANA	45,861	0	22,121
Title: DEVELOPMENT AND TESTING OF TETRAPLOID CRASSOSTREA VIRGINICA BROODSTOCK FOR PRODUCING TRIPLOID OYSTERS					
R/ODR-1 (11284)	RICHARD K. COOPER	LOUISIANA	83,721	0	39,604
Title: ENHANCED DISEASE RESISTANCE IN THE AMERICAN OYSTER (CRASSOSTREA VIRGINICA)					
R/FMD-249 (10973)	B. NICHOLSON	MAINE/NEW HAMPSHIRE	67,915	0	40,651
Title: REVERSE TRANSCRIPTASE POLYMERASE CHAIN REACTION (RT-PCR) ASSAY FOR DETECTION OF AQUATIC BIRNAVIRUSES					

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-34

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
R/FMD-257 (11281)	B.L. NICHOLSON/J.T. SING	MAINE/NEW HAMPSHIRE	20,000	0	11,304
Title: MULTIPLEX POLYMERASE CHAIN REACTION (PCR) ASSAY FOR SIMULTANEOUS RAPID DETECTION OF THREE DIFFERENT FISH VIRUSES					
R/F-84 (11260)	MARY HAGEDOR	MARYLAND	53,000	0	26,455
Title: CRYOPRESERVATION OF TELOSTEMBRYOS					
R/F-85 (11262)	YONATHAN ZOHAR	MARYLAND	74,010	0	33,982
Title: THE NOVEL GONADOTROPIN-RELEASING HORMONE (GnRH) OF FISH: ITS FUNCTIONS, REGULATION OF SYNTHESIS AND RELEASE, AND POTENTIAL USE FOR SPAWNING MANIPULATIONS IN STRIPED BASS					
RB-43 (11097)	ROBERT LANGER	MASSACHUSETTS INST. OF TECH.	75,000	0	77,485
Title: DEVELOPMENT OF NEW METHODS FOR EFFICIENT VACCINATION OF FARMED FISH: CONTROLLED AND SUSTAINED DELIVERY OF VACCINES					
R/B-139 (11105)	CHERYL ANN BUTMAN	WOODS HOLE OCEANOGRAPHIC INST.	59,910	0	41,678
Title: DEVELOPMENT OF SPECIES-SPECIFIC IMMUNOFLUORESCENT MARKERS FOR BIVALVE LARVAE WITH AN APPLICATION TO FISHERIES MANAGEMENT					
R/F-31 (10948)	ANNE R. KAPUSCINSKI	MINNESOTA	12,230	0	18,392
Title: TEMPORAL TRENDS IN GENETIC DIVERSITY IN MANAGED FISH POPULATIONS AND IMPLICATIONS FOR SUSTAINABILITY					
R/N-9714 (11349)	MARGARET A. WHEATLEY	NEW JERSEY	48,500	0	33,703
Title: ADMINISTRATION OF BIOACTIVE COMPOUNDS TO AQUACULTURE USING ALGINATE, A RENEWABLE MARINE RESOURCE					
R/ABM-1 (10990)	DAVID O. CONOVER	NEW YORK	72,463	0	48,849
Title: COUNTERGRADIENT LATITUDINAL VARIATION IN GROWTH OF STRIPED BASS: IMPLICATIONS FOR AQUACULTURE					
R/AF-30 (10438)	C.V. SULLIVAN	NORTH CAROLINA	64,730	0	0
Title: REPRODUCTION OF TEMPERATE BASSES (GENUS MORONE) REGULATION BY GONADOTROPHINS, GROWTH HORMONE, AND PROLACTIN					

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-35

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
R/AF-33 (11017)	EDWARD J. NOGA/MICHAEL G	NORTH CAROLINA	12,243	0	26,582
Title: CHARACTERISTICS OF A NOVEL, POTENT, IMMUNOLOGICAL DEFENSE IN FISH					
R/A-7 (11129)	KONRAD DABROWSKI/DAVID C	OHIO	35,663	0	36,405
Title: EXTENDING THE SEASONAL AVAILABILITY OF WALLEYE JUVENILES THROUGH ENVIRONMENTAL/HORMONAL TREATMENT DURING REPRODUCTION AND EVALUATING THE QUALITY OF RESULTING PROGENY					
R/FSD-28 (10286)	JO-ANN C. LONG	OREGON	35,356	0	12,432
Title: RATIONAL IMMUNOTHERAPY FOR FISH: ISOLATION AND CHARACTERIZATION OF RAINBOW TROUT CYTOKINES					
R/FSD-26 (10288)	JOHN L. FREY	OREGON	18,186	0	35,116
Title: DEVELOPMENT OF DNA PROBES TO CHARACTERIZE THE LIFE CYCLE OF CERATOMYXA SHASTA, A MYXOSPOREAN PARASITE OF SALMONID FISH					
R/BT-16 (10429)	JO-ANN LEONG	OREGON	33,190	0	12,432
Title: DEVELOPMENT OF CAULOBACTERS AS A VACCINE PRESENTATION SYSTEM FOR THE IMMUNIZATION OF SALMONID FISH AGAINST IHN VIRUS					
R/A-27 (10928)	THOMAS CACECI	VIRGINIA	59,362	0	29,842
Title: GROWTH HORMONE IN PRAWNS					
R/A-28 (11288)	STEPHAN A. SMITH	VIRGINIA	56,891	0	34,507
Title: DEVELOPMENT OF A POLYMERASE CHAIN REACTION (PCR) TECHNIQUE FOR THE DETECTION OF MYCOBACTERIOSIS IN HYBRID STRIPED BASS, A CULTURED MARINE FISH.					
R/A-75 (11219)	JOSEPH G. CLOUD	WASHINGTON	33,400	0	10,552
Title: SAVING THE GENETIC DIVERSITY OF AQUATIC ORGANISMS: SPERM CRYOPRESERVATION					
R/A-74 (11224)	WILLIAM K. HERSHBERGER	WASHINGTON	40,400	0	25,862
Title: DEVELOPMENT OF TECHNIQUES FOR PRODUCTION OF TRIPLOID GEODUCK CLAMS					
R/AQ-30 (11148)	TERRENCE P. BARRY	WISCONSIN	69,061	0	44,873
Title: STEROID REGULATION OF THE STRESS RESPONSE IN SALMONID FISHES					

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-36

<u>Project Number</u>	<u>PI</u>	<u>Program</u>	<u>Sea Grant</u>	<u>Pass Thru</u>	<u>Matching</u>
R/AQ-1	DONALD V. LIGHTNER	INDEPENDENT/OTHER	75,000	0	37,500
(10830) Title: USE OF POLYMERASE CHAIN REACTION (PCR) TO DETECT PENAEID SHRIMP VIRUSES AS AN AID IN THE DEVELOPMENT OF SPECIFIC PATHOGEN-FREE SHRIMP STOCKS.					

Number of Projects: 29			Subtotal:	1,322,886	0 816,123

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-37

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
Project Category: 51 - PRODUCT QUALITY AND SAFETY					
A/TP-1 (11513)	JAMES C. CATO/W. STEVEN	FLORIDA	99,750	0	0
Title: SEAFOOD HAZARD ANALYSIS CRITICAL CONTROL POINT (HACCP)					
R/SS-21 (11414)	M. L. ALBER	GEORGIA	21,049	0	33,535
Title: DEVELOPMENT OF A VALUE-ADDED PROCESS FOR THE RETENTION OF CRISPNESS IN BREADED SHRIMP AFTER FRYING					
R/PMO-16 (11007)	RONALD J. SIEBELING	LOUISIANA	28,313	0	15,690
Title: SEROLOGICAL EXAMINATION OF CLINICAL AND ENVIRONMENTAL VIBRIO VULNIFICUS USING CAPSULE AND LIPOPOLYSACCHARIDE SPECIFIC ANTIBODY					
R/PMO-17 (11008)	PAUL LAROCK	LOUISIANA	35,000	0	26,517
Title: A PROCESS TO KILL VIBRIO VULNIFICUS IN OYSTERS					
R/PMO-18-PD (11664)	RONALD J. SIEBELING	LOUISIANA	26,680	0	17,755✓
Title: DETECTION OF GENES ASSOCIATED WITH CAPSULE EXPRESSION IN VIRULENT VIBRIO VULNIFICUS STRAINS					
R/MT-33 (11238)	ASIM K. BEJ	MISSISSIPPI/ALABAMA	42,134	0	23,008
Title: MONITORING VIRAL CONTAMINATION IN SHELLFISH IN MOBILE BAY USING MULTIPLEX RT-PCR AMPLIFICATION METHODS					
R/MT-36 (11239)	ROBERT C. BATEMAN, JR.	MISSISSIPPI/ALABAMA	50,049	0	25,047
Title: A RAPID PUTRESCINE/CADAVERINE TEST FOR DECOMPOSITION IN FISHERIES PRODUCTS					
R/SF-6 (10294)	HAEJUNG AN	OREGON	27,693	0	8,943
Title: STRATEGIES TO CONTROL HISTAMINE AND OTHER BIOGENIC AMINES FORMATION IN ALBACORE TUNA					
R/SP-11 (10930)	CAMERON HACKNEY	VIRGINIA	50,568	0	25,387
Title: QUALITY AND SHELF-LIFE INDICATORS FOR PASTEURIZED CRABMEAT					
R/SP-12 (10931)	GEORGE FLICK	VIRGINIA	36,622	0	20,963
Title: THE DETECTION AND CONCENTRATIONS OF CADAVERINE, PUTRESCINE, AND HISTAMINE IN SELECTED FRESH AND PROCESSED FINFISH AND SHELLFISH					

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-38

<u>Project Number</u>	<u>PI</u>	<u>Program</u>	<u>Sea Grant</u>	<u>Pass Thru</u>	<u>Matching</u>
R/ST-97050	CHENG-I WEI	INDEPENDENT/OTHER	77,480	0	0
(11495) Title: BIOGENIC AMINES (HISTAMINE, CADAVERINE, AND PUTRESINE) DETECTION WITH AROMASCAN AS INDICES FOR AQUATIC PRODUCT QUALITY AND SAFETY					

Number of Projects: 11			Subtotal:	468,658	0 179,090

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-39

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
Project Category: 52 - PROCESSING TECHNOLOGY AND PRACTICES					
R/SST-21 (11027)	D. GREEN/S. ANDREW HALE	NORTH CAROLINA	13,557	0	0
Title: RE-ENGINEERING THE HANDLING OF FRESH (COOKED) CRAB CLAWS FOR IMPROVED MEAT QUALITIES AND NEW PRODUCT DEVELOPMENT					
R/SST-22 (11028)	TYRE LANIER	NORTH CAROLINA	0	0	50,062
Title: STABILIZATION OF QUALITY IN FROZEN SEAFOODS BY PRESSURE FREEZING IN COMBINATION WITH VITRIFYING CRYOPROTECTANT INFUSION					
R/SST-23 (11029)	B. FARKAS/L. JAYKUS/D. G	NORTH CAROLINA	0	0	16,500
Title: PROCESS ENGINEERING OF A "PASTERURIZED" RAW OYSTER FOR INSTITUTIONAL USERS					
R/SF-5 (10289)	GILBERT R. SYLVIA	OREGON	11,677	0	4,740
Title: DYNAMIC PORTFOLIO ANALYSIS OF PACIFIC WHITING PRODUCTS					
R/SF-7 (10295)	EDWARD R. KOLBE	OREGON	23,275	0	30,808
Title: ELECTRICAL HEAT PROCESS DEVELOPMENT FOR UNDERUTILIZED SEAFOOD					
R/ST97022 (11494)	MICHAEL T. MORRISSEY	INDEPENDENT/OTHER	34,089	0	0
Title: THE USE OF SURIMI WASH WATER IN FISH PROTEIN HYDROLYSATES					
R/ST97105 (11496)	BRIAN E. FARKAS	INDEPENDENT/OTHER	41,011	0	0
Title: IMPLEMENTATION AND COMMERCIAL TESTING OF A NEW METHOD FOR THERMAL PROCESSING OF BLUE CRABS					
Number of Projects: 7			Subtotal:	123,609	0 102,110

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-40

<u>Project Number</u>	<u>PI</u>	<u>Program</u>	<u>Sea Grant</u>	<u>Pass Thru</u>	<u>Matching</u>
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Project Category: 53 - WASTE MANAGEMENT AND BYPRODUCT RECOVERY

R/SP-15-PD	J. RONALD MINER	OREGON	11,044	0	13,428✓
(11666)	Title: WASTE DISPOSAL FROM COASTAL OREGON SEAFOOD PROCESSING: AN EVALUATION OF THE OPPORTUNITY OF MEANINGFUL EDUCATION INTERVENTION				

R-53-1-96	JOHN M. KUBARYK	PUERTO RICO	23,516	0	10,954
(11143)	Title: CONVERSION OF TUNA WASTE SLUDGE INTO AN INGREDIENT TO REPLACE FISH MEAL IN THE DIET OF A FRESHWATER FISH				

Number of Projects: 2			Subtotal:	23,516	0	10,954
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SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-41

<u>Project Number</u>	<u>PI</u>	<u>Program</u>	<u>Sea Grant</u>	<u>Pass Thru</u>	<u>Matching</u>
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Project Category: 54 - PRODUCT DEVELOPMENT

R/35-18	CHARLES CRAPO/BRIAN HIME ALASKA		29,402	0	11,213
(10984)	Title: DEVELOPING VALUE-ADDED PRODUCTS FROM LATE HARVEST SALMON				

Number of Projects: 1			Subtotal:	29,402	0	11,213
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SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-42

<u>Project Number</u>	<u>PI</u>	<u>Program</u>	<u>Sea Grant</u>	<u>Pass Thru</u>	<u>Matching</u>
Project Category: 61 - FISHING INDUSTRIES					
R/14-17 (11398)	K. CRIDDLE/M. HERRMANN/S ALASKA		51,021	0	5,415
Title: THE KENAI PENINSULA PACIFIC HALIBUT SPORT FISHERY					

R/MA-39 (11467)	CAROLINE POMEROY	CALIFORNIA	0	0	0
Title: SOCIO-ECONOMIC ORGANIZATION OF THE CALIFORNIA MARKET SQUID FISHERY: ASSESSMENT FOR OPTIMAL RESOURCE MANAGEMENT					

R/FHD-8 (10991)	TOMMY L. BROWN	NEW YORK	35,750	0	21,400
Title: PARTICIPATION, ECONOMIC IMPACT, AND MARKETING ANALYSIS OF GREAT LAKES FISHERIES					

Number of Projects: 3			Subtotal:	86,771	0 26,815

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-43

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
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Project Category: 62 - COASTAL RECREATION BUSINESS

M/CSC-2	G. ANTONINI	FLORIDA	0	50,000	0
(11603) Title: SUPPLEMENTAL FUNDS TO IMPLEMENT THE NON-REGULATORY BOATING URBAN BAYWATER MANAGEMENT PROJECT					

R/TR-96117	ROBERT BACON	INDEPENDENT/OTHER	35,136	0	0
(11487) Title: IMPLEMENTATION AND EVALUATION OF AN ECO-TOURISM & LOCAL GUIDE TRAINING-BUSINESS MODEL					

R/AQ-96077	JAMES MURRAY	INDEPENDENT/OTHER	6,000	0	0
(11488) Title: U-PICK-IT CLAM VENTURE					

Number of Projects: 3			Subtotal:	41,136	50,000 0

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-44

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
Project Category: 63 - MARINE TRADES INDUSTRY					
A/MAS-2 (11117)	MAC V. RAWSON, JR.	GEORGIA Title: MARINE BUSINESS DEVELOPMENT AND MANAGEMENT	105,538	0	19,304

R/MC-1 (10616)	JOHN WILTSHIRE	HAWAII Title: TAILINGS MANAGEMENT FOR A MARINE MINERALS INDUSTRY	9,581	0	13,542

RT-2 (10383)	CHRYSSOSTOMOS CHRYSSOSTO	MASSACHUSETTS INST. OF TECH. Title: FOCUSED RESEARCH	87,637	0	140,138

A/CR-973 (11636)	VIRGINIA LEE	RHODE ISLAND Title: ASSESSING MARINE INDUSTRY NEEDS FOR COASTAL FORECASTING	0	69,294	0

Number of Projects: 4			Subtotal:	202,756	69,294 172,984

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-45

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
Project Category: 71 - COASTAL TOURISM DEVELOPMENT					
A/MRT-1 (10810)	MICHAEL LIFFMAN	LOUISIANA	25,461	0	6,175
Title: ADVISORY SERVICES IN MARINE RECREATION AND TOURISM					
R/MRT-2 (11009)	JOYCE M. JACKSON	LOUISIANA	39,590	0	12,866
Title: ECONOMIC OPPORTUNITIES BASED ON THE HISTORICAL AND CULTURAL DEVELOPMENT OF TRADITIONAL NEW ORLEANS JAZZ IN COASTAL LOUISIANA					
R/SEL-9 (11337)	LONNIE JONES/D.A. BROOKS	TEXAS	70,137	0	26,724
Title: IMPACTS OF RECREATIONAL AND COMMERCIAL FISHING AND COASTAL RESOURCE BASED TOURISM ON REGIONAL AND STATE ECONOMICS					
R/PS-48 (11156)	THOMAS A. HEBERLEIN	WISCONSIN	63,261	0	32,452
Title: PARTICIPATION IN APOSTLE ISLANDS BOATING: PERSISTENCE AND CHANGE, 1975-1997					
R/PS-49 (11157)	R. WILLIAM PROVENCHER	WISCONSIN	29,511	0	27,838
Title: A DYNAMIC ECONOMIC MODEL OF RECREATION: AN APPLICATION TO THE GREEN BAY YELLOW PERCH FISHERY					
Number of Projects: 5			Subtotal:	227,960	0 106,055

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-46

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
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Project Category: 72 - COMMUNITIES IN TRANSITION

R/SPS-5	FORREST A. DESERAN	LOUISIANA	35,703	0	20,299
(11010)	Title: OYSTER FISHERMEN AND THE LOCAL ECONOMY: A STUDY OF LABOR DISPLACEMENT IN THE LOUISIANA OYSTER INDUSTRY				

R/FDF-2	COURTLAND L. SMITH	OREGON	28,644	0	15,115
(10281)	Title: EFFECTIVE DISASTER RELIEF FOR FISHING ENTREPRENEURS AND THEIR FAMILITES				

A/FDF-1	FLAXEN D. L. CONWAY	OREGON	43,525	0	30,241
(10284)	Title: FISHING BUSINESS, FAMILIES, AND COMMUNITIES: TRAINSITIONING TO THE FUTURE				

Number of Projects: 3			Subtotal:	107,872	0	65,655
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SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-47

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
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Project Category: 73 - COASTAL AND WATERFRONT REDEVELOPMENT

R/RS-1	C.H. PRINCE/L.C. BICKLEY SOUTH CAROLINA		0	55,824	0
(11663) Title: WISE INVESTMENTS/SHARED BENEFITS: DEVELOPMENT OF A SUSTAINABLE INFRASTRUCTURE					

Number of Projects: 1			Subtotal:	0	55,824	0
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SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-48

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
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Project Category: 74 - PORTS AND HARBORS

R/OE-34	WILLIAM WEBSTER	CALIFORNIA	50,203	0	25,048
(10655) Title: PREDICTING SEICHE IN HARBORS					

RC-49	N.M. PATRIKALAKIS	MASSACHUSETTS INST. OF TECH.	0	125,000	0
(10113) Title: A RISK MODEL FOR EVALUATING MARINE SAFETY					

Number of Projects:	2	Subtotal:	50,203	125,000	25,048
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SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-49

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
Project Category: 75 - PLANNING AND DECISION-MAKING INFORMATION					
A/SE-04-97-A (11383)	JAMES W. FORD/DENNIS DRE	ILLINOIS/INDIANA Title: ECOSYSTEM ISSUES TRAINING IN NORTHEASTERN ILLINOIS	30,000	0	15,000

R/SL-4 (10168)	RICHARD J. MCLAUGHLIN	MISSISSIPPI/ALABAMA Title: MISSISSIPPI-ALABAMA SEA GRANT LEGAL PROGRAM	73,849	0	145,909

R/SS-9503 (10787)	TIMOTHY HENNESSEY	RHODE ISLAND Title: SCIENCE AND LEARNING IN FISHERY MANAGEMENT: POLICY DEVELOPMENT AND EVOLUTION	30,308	0	31,263

Number of Projects:	3		Subtotal:	134,157	0 192,172

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-50

<u>Project Number</u>	<u>PI</u>	<u>Program</u>	<u>Sea Grant</u>	<u>Pass Thru</u>	<u>Matching</u>
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Project Category: 83 - STRUCTURE PERFORMANCE ASSESSMENTS

R/OE-35	WILLIAM C. WEBSTER	CALIFORNIA	0	0	0
(11466) Title: THE FEASIBILITY OF LARGE-SCALE FLOATING RUNWAYS					

Number of Projects: 1			Subtotal:	0	0	0
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SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-51

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
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Project Category: 84 - REHABILITATION, REPAIR, AND RECYCLING PROCEDURES

R/ES-3	BRUCE E. LIEBERT	HAWAII	24,990	0	23,779
(11379)	Title: ELECTRO-DEPOSITION OF CARBONATE STRUCTURES IN TROPICAL MARINE ENVIRONMENTS				

R/OE-13	CHON L. TSAI	OHIO	25,416	0	26,389
(11127)	Title: CONTROL ALGORITHM FOR UNDERWATER "WET" FLUX-CORED ARC WELDING PROCESS				

R/MT-97008	CHON TSAI	INDEPENDENT/OTHER	47,763	0	0
(11491)	Title: DEVELOPMENT AND COMMERCIALIZATION OF AN INTEGRATED WELDING SYSTEM FOR INDUSTRIAL APPLICATIONS				

Number of Projects: 3			Subtotal:	98,169	0	50,168
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SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-52

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
Project Category: 91 - TOXICS					
R/CZ-146 (11473)	JANET G. HERING	CALIFORNIA	0	0	0
Title: SPECIATION OF METAL INPUTS TO COASTAL WATERS: CONSEQUENCES FOR METAL TRANSPORT AND BIOAVAILABILITY					
R/CZ-142 (11474)	RONALD S. TJEERDEMA	CALIFORNIA	0	0	0
Title: DIRECT IN VIVO MEASUREMENTS OF ENZYME REACTION RATES IN RED ABALONE AS INDICES OF SUBLETHAL TOXIC EFFECTS					
R/CZ-143 (11475)	DAVID EPEL	CALIFORNIA	116,317	0	84,883
Title: MOLECULAR BIOMARKERS FOR DETECTING POLLUTION AND ITS REMEDIATION					
R/CE-1 (11082)	T.L. KU/E.Y. ZENG	UNIV. OF SOUTHERN CALIFORNIA	60,871	0	63,348
Title: TRACING ORGANIC CONTAMINANTS FROM THE WHITE'S POINT OUTFALL EFFLUENT - RADIOISOTOPE STUDIES.					
R/CE-2 (11083)	B. H. JONES/L. WASHBURN	UNIV. OF SOUTHERN CALIFORNIA	45,656	0	50,102
Title: DISPERSION AND MIXING OF STORM WATER RUNOFF IN SANTA MONICA BAY: APPLICATION OF SPECTRAL BIO-OPTICAL TECHNIQUES FOR OBSERVING CONTAMINANT DISTRIBUTIONS					
R/CE-3 (11084)	M.H. HORN/C.T. COLLINS/A	UNIV. OF SOUTHERN CALIFORNIA	30,256	0	45,515
Title: FOOD WEB STRUCTURE AND HEAVY METAL ACCUMULATION IN A RECENTLY ESTABLISHED GUILD OF BREEDING SEABIRDS IN SOUTHERN CALIFORNIA					
R/B-33 (10202)	GEORGE W. LUTHER, III	DELAWARE	37,039	0	26,552
Title: VOLTAMMETRIC MICROELECTRODES FOR THE DETERMINATION OF BIOGEOCHEMICALLY RELEVANT SPECIES IN SEDIMENTS AND WATERS					
R/WQ-2 (11415)	VICTOR D. WALL	GEORGIA	27,092	0	44,650
Title: CHARACTERIZATION OF THE OXIDATIVE STRESS RESPONSE OF MARSH PLANTS FOR DETECTION OF SUB-LETHAL STRESS FROM CHEMICAL POLLUTANTS					
R/EL-14 (11365)	GORDON E. GRAU	HAWAII	52,321	0	9,434
Title: EFFECTS OF ENVIRONMENTAL ENDOCRINE DISRUPTERS IN THE TROPICAL FISH, TILAPIA (OREOCHROMIS MOSSAMBICUS)					

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-53

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
R/EL-16 (11366)	KHALIL J. SPENCER	HAWAII Title: UPTAKE OF ANTHROPOGENIC LEAD AND OTHER METALS BY P. LOBATA IN AREAS SUBJECT TO POINT AND NON-POINT POLLUTION STRESSES AROUND OAHU, HAWAII	13,869	0	25,614
R/PS-01-97 (11381)	O.E. RHODES/C.D. MCCREED	ILLINOIS/INDIANA Title: A GENOTOXICOLOGICAL APPROACH TO BIOMONITORING: BIOMARKERS FOR CARCINOGENS IN BULLHEAD CATFISH	71,903	0	34,513
R/PS-02-97 (11382)	R. GILLESPIE/P.M. STEWAR	ILLINOIS/INDIANA Title: DEVELOPMENT OF A BIOLOGICAL INDICATOR OF EXPOSURE TO PAHS IN FISHES OF THE GRAND CALUMET RIVER SYSTEM	61,780	0	29,724
R/CE-120 (10975)	H. GAUDETT	MAINE/NEW HAMPSHIRE Title: DISCRIMINATION OF POINT AND NONPOINT SOURCES OF METAL CONTAMINATION IN THE COASTAL ZONE BY ISOTOPIC ANALYSIS	92,750	0	33,865
(11530)	JOEL E. BAKER	MARYLAND Title: CHESAPEAKE BAY ATMOSPHERIC DEPOSITION PROGRAM 1997 CHEMICAL CONTAMINANT FIELD PROGRAM	0	300,000	0
R/CBT-33 (11555)	C.G. GILMOUR/G. F. RIEDE	MARYLAND Title: AN ASSESSMENT OF THE IMPACT OF METAL-CONTAMINATED DREDGE SPOILS IN WETLAND RESTORTATION	0	177,519	0
R/CBT-32 (11556)	JEFFREY CORNWELL/ROBERT	MARYLAND Title: BALTIMORE HARBOR SEDIMENT METALS	0	99,965	0
R/CBT-36 (11557)	DAVID VELINSKY/JAMES MCN	MARYLAND Title: BIOACCUMULATION DYNAMICS OF HYDROPHOBIC ORGANIC CONTAMINANTS IN THE ANACOSTIA RIVER FOOD WEB	0	56,998	15,551
R/ES-16 (11343)	NATHANIEL E. OSTROM	MICHIGAN Title: THE EFFECTS OF FOOD WEB STRUCTURE AND DYNAMICS ON TOXAPHENE BIOACCUMULATION	124,155	0	100,322
R/NP-14 (10951)	THOMAS C. JOHNSON	MINNESOTA Title: ACOUSTIC MAPPING OF LAKE FLOOR SEDIMENTS IN WESTERN LAKE SUPERIOR	20,213	0	19,535
R/CL-48 (10954)	DEBORAH L. SWACKHAMER	MINNESOTA Title: EFFECT OF BYTHOTREPHES ON PCB BIOMAGNIFICATION ON SALMONIDS	10,136	0	20,246

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-54

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
R/E-9703 (11348)	S. J. EISENREICH	NEW JERSEY Title: AIR-SEA EXCHANGE OF PCBS AND PAHS IN NEW JERSEY COASTAL WATERS	114,682	0	57,787
R/E-9704 (11352)	YUAN GAO	NEW JERSEY Title: ATMOSPHERIC DEPOSITION OF TRACE METALS AND NITROGEN TO THE NEW YORK- NEW JERSEY HARBOR ESTUARY	42,000	0	21,067
R/CTP-22 (10993)	VICENT T. BRESLIN	NEW YORK Title: DISTRIBUTION AND EFFECTS OF SHIP-DERIVED WASTES: A GEOCHEMICAL AND ECOLOGICAL STUDY OF LAKE ONTARIO SEDIMENTS	50,843	0	46,892
R/MRD-34 (11030)	S. K. BURGESS	NORTH CAROLINA Title: EFFECT OF ESTUARINE METAL POLLUTANTS ON BLUE CRAB SHELL MINERALIZATION	18,313	0	0
R/PS-17 (11132)	KEITH A. GRASMAN	OHIO Title: IMMUNOLOGICAL BIOMARKERS AND CONTAMINANT-ASSOCIATED IMMUNOSUPPRESSION IN FISH-EATING BIRDS OF THE LOWER GREAT LAKES	0	0	77,302
R/ER-42 (11408)	YU-PING CHIN	OHIO Title: PHOTODEGRADATION OF AGRICULTURAL PESTICIDES AND HERBICIDES IN ESTUARINE WETLANDS IN THE GREAT LAKES BASIN	54,123	0	29,876
R/PS-21 (11409)	DAVID B. BAKER	OHIO Title: THE RELATIONSHIPS BETWEEN PARTICLE SIZE COMPOSITION OF SUSPENDED SEDIMENTS AND PARTICULATE POLLUTANT TRANSPORT IN RIVERS	21,217	0	13,191
E/IF-1 (11539)	HAEJO HWANG/SUSAN FISHER	OHIO Title: CRITICAL BODY RESIDUES FOR AQUATIC RISK ASSESSMENT OF SURFACTANTS	29,396	0	29,199
R/ES-77 (11335)	C.S. GIAM/T.L. HOLLIDAY	TEXAS Title: A NEW APPROACH TO MONITORING EXPOSURE OF AQUATIC ORGANISMS TO ORGANIC POLLUTANTS	59,630	0	30,384
R/CBT-35 (11551)	REBECCA DICKHUT	VIRGINIA Title: TRANSPORT AND FATE OF SEDIMENT-ASSOCIATED POLYCYCLIC AROMATIC HYDROCARBONS AND TRACE ELEMENTS IN THE ELIZABETH RIVER	0	141,677	0

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-55

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
R/CBT-36 (11552)	DAVID VELINSKY/JAMES MCN VIRGINIA		0	99,491	0
Title: BIOACCUMULATION DYNAMICS OF HYDROPHOBIC ORGANIC CONTAMINANTS IN THE ANACOSTIA RIVER FOOD WEB					
M/PD-CBT-1 (11553)	WILLIAM L. RICKARDS/C. D VIRGINIA		0	29,150	0
Title: CHESAPEAKE BAY TOXICS RESEARCH PROGRAM: NEW PROJECT INITIATIVES					
R/CBT97-34 (11554)	R. ALDEN/D. DAUER/A. MES VIRGINIA		0	66,200	0
Title: BENTHIC COMMUNITY RESPONSES TO MULTIPLE CONTAMINANTS					
R/MW-59 (10130)	STEPHEN R. CARPENTER	WISCONSIN	57,192	0	46,362
Title: MICROCONTAMINANT CYCLING IN GREAT LAKES FOOD WEBS					
R/MW-71 (11152)	DAVID E. ARMSTRONG	WISCONSIN	102,406	0	55,068
Title: TRACE METALS IN LAKE SUPERIOR TRIBUTARIES: IMPLICATIONS FOR CONTAMINANT VIRTUAL ELIMINATION					
R/MW-72 (11153)	MARGARET CLAGETT-DAME	WISCONSIN	67,394	0	66,300
Title: IDENTIFICATION OF THE ENDOGENOUS LIGAND FOR THE ARYL HYDROCARBON RECEPTOR IN FISH					
R/MW-73 (11154)	WILLIAM H. KARASOV	WISCONSIN	31,006	0	18,225
Title: STATUS OF AMPHIBIANS IN THE GREEN BAY ECOSYSTEM: EVALUATION BY BIOASSAY, BIOMARKERS AND HABITAT					
R/MW-75 (11345)	MARK B. SANDHEINRICH	WISCONSIN	62,109	0	0
Title: MATERNALLY TRANSMITTED MERCURY: EFFECTS ON EMBRYO AND LARVAL FISH SURVIVAL, GROWTH AND FEEDING BEHAVIOR					
Number of Projects: 38			Subtotal:	1,474,669	971,000 1,095,507

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-56

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
Project Category: 92 - BIOLOGICAL CONTAMINANTS					
R/CH-1 (11085)	JED FUHRMAN	UNIV. OF SOUTHERN CALIFORNIA Title: VIRUSES IN THE COASTAL WATER OF LOS ANGELES	30,195	0	27,149

R/CH-2 (11452)	RODOLFO ITURRIAGA	UNIV. OF SOUTHERN CALIFORNIA Title: FATE OF GIARDIA AND CRYPTOSPORIDIUM CYSTS IN MARINE SEWAGE OUTFALLS	93,950	0	36,102

R/C-E-41 (11236)	JOHN H. PAUL	FLORIDA Title: VIRAL TRACER TECHNOLOGY FOR TRACKING WASTEWATER CONTAMINATION OF COASTAL ENVIRONMENTS	63,525	0	34,667

R/EL-13 (11374)	MAQSUDUL ALAM	HAWAII Title: USE OF MOLECULAR GENETIC TECHNIQUES TO CO-DETECT BACTERIAL PATHOGENS AND THEIR SURVIVAL PHASES TO STRESSES IN HAWAII'S COASTAL WATERS	34,952	0	12,153

R/NP-13 (10950)	RANDALL E. HICKS	MINNESOTA Title: SURVIVAL AND REPRODUCTION OF PATHOGENIC BACTERIA IN A GREAT LAKES ESTUARY: A COMPREHENSIVE TEST OF COMBINED MUNICIPAL AND INDUSTRIAL SEWAGE MANAGEMENT	15,576	0	35,255

Number of Projects: 5			Subtotal:	238,198	0 145,326

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-57

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
Project Category: 93 - NUTRIENTS					
R/WQ-1 (11116)	DEBORAH A. BRONK	GEORGIA	37,160	0	17,764
Title: COASTAL EUTROPHICATION: ORGANIC VERSUS INORGANIC NITROGEN AS A SOURCE OF COASTAL PRODUCTIVITY					
R/EL-1 (10625)	MARLIN J. ATKINSON	HAWAII	17,345	0	81,047
Title: FIELD VERIFICATION OF MASS-TRANSFER MODEL FOR NUTRIENT UPTAKE					
R/MPE-68 (11011)	R. EUGENE TURNER	LOUISIANA	89,165	0	33,350
Title: ESTUARINE EUTROPHICATION: RECONSTRUCTION OF HISTORICAL CHANGES AND PREDICTION OF FUTURE EVENTS					
R/MAR94-7A, B, C (11204)	NANCY N. RABALAIS	LOUISIANA	0	45,000	0
Title: HYPOXIA HYDROGRAPHIC AND BIOLOGICAL SURVEYS - SUPPLEMENT					
R/MAR94-7A, B, C (11204)	NANCY N. RABALAIS	LOUISIANA	0	31,000	0
Title: HYPOXIA HYDROGRAPHIC AND BIOLOGICAL SURVEYS - SUPPLEMENT					
R/CE-108 (10179)	WENDELL S. BROWN	MAINE/NEW HAMPSHIRE	44,000	0	11,236
Title: AN OBSERVATIONAL/MODELING STUDY OF THE WESTERN GULF OF MAINE COASTAL CURRENT					
R/P-38 (10044)	CYNTHIA C. GILMOUR	MARYLAND	77,993	0	40,176
Title: BACTERIOPLANKTON DYNAMICS IN THE PATUXENT RIVER: RESPONSE TO NITROGEN ABATEMENT					
R/P-41 (10969)	PATRICIAL M. GILBERT	MARYLAND	65,001	0	31,095
Title: THE ROLE OF DISSOLVED ORGANIC NITROGEN IN THE EUTROPHICATION OF CHESAPEAKE BAY					
RC-57 (11431)	JOSEPH P. MONTOYA	MASSACHUSETTS INST. OF TECH.	56,845	0	28,518
Title: SEWAGE IN MASSACHUSETTS BAY: A STABLE ISOTOPE STUDY OF AN URBAN COASTAL ECOSYSTEM					
RC-58 (11435)	HAROLD HEMOND	MASSACHUSETTS INST. OF TECH.	74,638	0	37,904
Title: DENITRIFICATION AND NITROGEN ATTENUATION IN THE AQUIFER OF AN ESTUARINE WATERSHED					

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-58

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
R/M-37 (11103)	A. E. GIBLIN/C. S. HOPKI	WOODS HOLE OCEANOGRAPHIC INST.	50,413	0	26,383
Title: ECOSYSTEM LEVEL MEASUREMENTS OF DENITRIFICATION IN ESTUARIES					
R/CL-47 (10953)	ROBERT W. STERNER	MINNESOTA	16,436	0	19,085
Title: THE LIGHT: NUTRIENT RATION - CONTROLS ON SESTON COMPOSITION, SECONDARY PRODUCTION, AND BIOGEOCHEMISTRY					
R/E-9706 (11354)	SYBIL P. SEITZINGER	NEW JERSEY	123,000	0	67,416
Title: ESTUARINE EUTROPHICATION: SEASONAL CYCLE OF THE CONTRIBUTION OF DISSOLVED ORGANIC NITROGEN FROM NON-POINT AND POINT SOURCES					
R/MER-36 (11031)	J. BURKHOLDER	NORTH CAROLINA	63,289	0	0
Title: EUTROPHICATION OF SEAGRASS MEADOWS: INTERACTIONS BETWEEN NITRATE AND PHOSPHATE IN CONTROLLING EELGRASS SURVIVAL					
R/MER-37 (11032)	H. PEAERL/J PINKNEY	NORTH CAROLINA	47,893	0	0
Title: ANTHROPOGENIC NITROGEN SOURCES AND COASTAL EUTROPHICATION: DOES N COMPOSITION CONTROL PHYTOPLANKTON BIODIVERSITY AND WATER QUALITY?					
R/ER-37 (11128)	ROBERT HEATH/STEPHEN CAB	OHIO	40,945	0	32,908
Title: ORIGIN, PROCESSING, AND FATE OF PHOSPHATE AND UV-SENSITIVE PHOSPHORUS INPUTS IN A GREAT LAKES COASTAL WETLAND					
R/ES-9501 (10791)	STEPHEN GRANGER	RHODE ISLAND	29,297	0	29,313
Title: A SHALLOW HIGH-SALINITY COASTAL LAGOON MESOCOSM FACILITY					
R/ES-9502 (10792)	DAVID TAYLOR	RHODE ISLAND	59,994	0	44,803
Title: EXPERIMENTAL INVESTIGATIONS OF THE INTERACTIVE IMPACTS OF NUTRIENT ENRICHMENT AND GRAZING ON THE LAGOONS OF THE NORTHEAST					
R/ES-9503 (10793)	ROBERT HOWARTH	RHODE ISLAND	26,788	0	13,404
Title: ENRICHMENT AND REMEDIATION OF ENRICHMENT OF SHALLOW MARINE SYSTEMS AND CRITICAL HABITATS: NITROGEN FIXATION IN SEAGRASS LAGOONS					
R/ES-9504 (10795)	BARBARA NOWICKI	RHODE ISLAND	64,402	0	16,640
Title: ENRICHMENT OF SHALLOW MARINE SYSTEMS AND CRITICAL HABITATS: THE IMPORTANCE OF SEDIMENT DENITRIFICATION IN REDUCING NITROGEN LOADS					

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-59

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
R/EC-2	DAVID N. EDGINGTON	WISCONSIN	51,393	0	47,205
(10124) Title: TERRESTRIAL-AQUATIC COUPLING, PARTICLE TRAPPING AND NUTRIENT BIOGEOCHEMISTRY IN LAND MARGIN SYSTEMS OF THE GREAT LAKES					

R/EC-4	RUSSELL CUHEL	WISCONSIN	45,889	0	16,981
(11149) Title: BIOLOGICAL ASSIMILATION OF PHOSPHORUS IN ESTUARIES					

R/COP-FLBAY-1	DR. THOMAS JUSTER	INDEPENDENT/OTHER	0	13,016	0
(11540) Title: THE ROLE OF GROUNDWATER NUTRIENT FLUXES IN THE NUTRIENT BUDGET OF FLORIDA BAY					

R/COP-FLBAY-1	WILLIAM C. BURNETT	INDEPENDENT/OTHER	0	37,721	0
(11542) Title: THE ROLE OF GROUNDWATER NUTRIENT BUDGET OF FLORIDA BAY					

Number of Projects: 23			Subtotal:	1,081,886	126,737 595,228

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-60

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
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Project Category: 94 - SEDIMENTATION

UNKNOWN	WILBERT LICK	CALIFORNIA	0	97,339	0
(11667)	Title: IMPROVING PREDICTIONS OF FINE-GRAINED SEDIMENT MOUND EROSION AND TRANSPORT AT THE MUP DUMP SITE AND HARS				

R/MMR-14	JOHN W. DAY, JR./G. PAUL	LOUISIANA	44,371	0	18,680
(11012)	Title: ASSESSING THE CAPACITY AND MECHANISMS FOR RIVERSIDE WETLANDS TO FILTER SEDIMENTS AND NUTRIENTS FROM DIVERTED MISSISSIPPI RIVER WATER				

RT-2/RC-54	E. ERIC ADAMS	MASSACHUSETTS INST. OF TECH.	62,500	0	107,980
(11090)	Title: BEHAVIOR OF CAPPED CONTAMINATED SEDIMENTS				

R/CTP-21	JOSEPH F. ATKINSON	NEW YORK	46,980	0	37,444
(10992)	Title: DEVELOPMENT OF NON-EQUILIBRIUM PCB DESORPTION MODEL FOR EVALUATION OF CONTAMINATED SEDIMENT REMEDIATION				

R/EM-19	KEITH BEDFORD/THOMAS CRO	OHIO	36,490	0	16,689
(11131)	Title: AN INTEGRATED WATERSHED-LAKE ERIE FORECASTING SYSTEM: PART I				

Number of Projects:	5	Subtotal:	190,341	97,339	180,793
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SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-61

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
Project Category: 95 - BIOTOXINS/HARMFUL ALGAL BLOOMS					
R/08-07 (10985)	F. GERALD PLUMLEY	ALASKA	33,429	0	0
Title: MOLECULAR BIOLOGY OF PARALYTIC SHELLFISH POISONING: ROLE OF PROKARYOTES IN TOXIN PRODUCTION					
R/CZ-144 (11471)	JASON C. SMITH	CALIFORNIA	0	0	0
Title: DOMOIC ACID BIOSYNTHESIS IN MARINE DIATOMS: BIOCHEMICAL PATHWAYS AND ENVIRONMENTAL REGULATION					
R/CZ-145 (11472)	DAVID GARRISON	CALIFORNIA	0	0	0
Title: ASSESSING ENVIRONMENTAL CONTROL OF DOMOIC ACID PRODUCTION BY THE PLANKTONIC DIATOM, PSEUDO-NITZSCHIA AUSTRALIS, IN CALIFORNIA COASTAL WATERS					
R/C-E-33 (10019)	RICHARD E. DODGE	FLORIDA	6,193	0	1,417
Title: ALGAL BLOOMS IN COASTAL WATERS: USING CORALS TO DIFFERENTIATE NUTRIENTS FROM POLLUTION OR NATURAL SOURCES					
R/C-E-36 (10022)	EDWARD J. PHILIPS	FLORIDA	22,337	0	11,169
Title: BLUE-GREEN ALGAL BLOOMS IN FLORIDA BAY: CONTROLLING FACTORS AND CONSEQUENCES FOR FOOD WEBS					
R/CE-227 (11630)	THEODORE LODER	MAINE/NEW HAMPSHIRE	0	13,584	0
Title: ECOHAB-GOM: THE ECOLOGY AND OCEANOGRAPHY OF TOXIC ALEXANDRIUM BLOOMS IN THE GULF OF MAINE					
R/CE-227 (11641)	MAUREEN D. KELLER	MAINE/NEW HAMPSHIRE	0	23,670	0
Title: ECOHAB-GOM: THE ECOLOGY AND OCEANOGRAPHY OF TOXIC ALEXANDRIUM BLOOMS IN THE GULF OF MAINE					
R/CE-227(A) (11642)	DAVID W. TOWNSEND	MAINE/NEW HAMPSHIRE	0	156,092	0
Title: ECOHAB-GOM: THE ECOLOGY AND OCEANOGRAPHY OF TOXIC ALEXANDRIUM BLOOMS IN THE GULF OF MAINE					
R/B-140 (11099)	D. M. ANDERSON/J. T. TUR	WOODS HOLE OCEANOGRAPHIC INST.	60,000	0	62,946
Title: DYNAMICS OF THE TOXIC DINOFLAGELLATE ALEXANDRIUM IN THE GULF OF MAINE: SOURCE POPULATIONS AND DOWNSTREAM IMPACTS					

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-62

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
R/B (11562)	DONALD ANDERSON	WOODS HOLE OCEANOGRAPHIC INST. Title: ECONOMIC IMPACTS OF HARMFUL ALGAL BLOOMS IN THE UNITED STATES	10,000	0	0
R/B-148-PT (11567)	DONALD ANDERSON	WOODS HOLE OCEANOGRAPHIC INST. Title: ECOHAB GOM: THE ECOLOGY AND OCEANOGRAPHY OF TOXIC ALEXANDRIUM BLOOMS IN THE GULF OF MAINE	0	260,941	0
R/CMB-12 (10997)	EDWARD J. CARPENTER	NEW YORK Title: CELL CYCLE TECHNIQUE FOR MEASUREMENT OF GROWTH RATES AND ENVIRONMENTAL EFFECTS OF THE BROWN TIDE ALGA	19,812	0	29,065
R/XG-5 (11176)	ROBERT A. ANDERSEN	NEW YORK Title: MULTIPLE CULTURE ISOLATES (XENIC AND AXENIC) BIODIVERSITY AND ULTRASTRUCTURE OF AUREOCOCCUS ANOPHAGEFFERENS	0	48,211	0
R/CMC-2 (11177)	GREGORY L. BOYER	NEW YORK Title: FERREDOXIN AND FLAVODOXIN AS METABOLIC MARKER FOR IRON STRESS IN AUREOCOCCUS ANOPHAGEFFERENS	0	49,685	7,114
R/CE-12 (11178)	DAVID CARON	NEW YORK Title: MICROZOOPLANKTON-MESOOZOOPLANKTON COUPLING AND ITS ROLE IN THE INITIATION OF BLOOMS OF AUREOCOCCUS ANOPHAGEFFERENS (BROWN TIDES)	0	80,474	24,675
R/CMB-14 (11179)	MAUREEN D. KELLER	NEW YORK Title: PHYSIOLOGICAL ECOLOGY OF THE BROWN TIDE ORGANISM, AUREOCOCCUS ANOPHAGEFFERENS	0	98,685	31,761
R/CE-11 (11180)	THEODORE J. SMAYDA	NEW YORK Title: ANALYSIS OF PHYSICAL, CHEMICAL AND BIOLOGICAL CONDITIONS ASSOCIATED WITH NARRAGANSETT BAY BROWN TIDE	0	30,047	26,776
R/CMC-3 (11181)	SERGIO SANUDO WILHELMY	NEW YORK Title: BIOGEOCHEMICAL AND ANTHROPOGENIC FACTORS THAT CONTROL BROWN TIDE BLOOMS: THE EFFECTS OF METALS AND ORGANIC NUTRIENTS IN LONG ISLAND'S EMBAYMENTS	0	97,428	18,820

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-63

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
R/CMB-15 (11563)	PATRICIA GLIBERT/TODD M.	NEW YORK	0	80,563	22,204
Title: MECHANISMS FOR NUTRIENT AND ENERGY ACQUISITION IN LOW LIGHT: SUCCESSFUL STRATEGIES OF AUREOCOCCUS ANOPHAGEFFERENS					
A/O-2 (11564)	CORNELIA G. SCHLENK	NEW YORK	0	15,454	0
Title: BROWN TIDE OUTREACH EFFORT					
ECO/HAB (11565)	GREGORY J. DOUCETTE	SOUTH CAROLINA	0	22,062	0
Title: ECOHAB-GOM: THE ECOLOGY AND OCEANOGRAPHY OF TOXIC ALEXANDRIUM BLOOMS IN THE GULF OF MAINE					
R/ES-75 (11333)	DEAN A. STOCKWELL	TEXAS	35,721	0	30,281
Title: DEVELOPMENT AND USE OF AN IMMUNO-FLUORESCENT PROBE FOR THE TEXAS BROWN TIDE ALGA					
R/B-14 (10746)	ROSE ANN CATTOLICO	WASHINGTON	39,900	0	26,111
Title: ECOSYSTEM DEVELOPMENT: GENE EXPRESSION IN MARINE ALGAE					
R/B-15 (10747)	ROSE ANN CATTOLICO	WASHINGTON	57,000	0	30,404
Title: TOXIC HETEROSIGMA BLOOMS: MOLECULAR MONITORING AND ICHTHYOTOXIN CHARACTERIZATION					
R/SBIR7-05 (11518)	C. J. OWEN	INDEPENDENT/OTHER	49,470	0	0
Title: DEVELOPMENT OF A LOW-COST OPTICAL BASED SENSOR FOR DETECTION OF RED-TIDE BLOOMS					
R/SBIR7-03 (11519)	PAUL V. HAYDOCK	INDEPENDENT/OTHER	49,888	0	0
Title: SIMPLIFIED DNA PROBE IDENTIFICATION OF HARMFUL ALGAL SPECIES					
R/ECOHAB (11581)	JOHN J. WALSH	INDEPENDENT/OTHER	0	330,000	0
Title: ECOHAB: FLORIDA					
R/ECOHAB:FLORIDA (11582)	RICHARD H. PIERCE	INDEPENDENT/OTHER	0	55,000	0
Title: ECOHAB:FLORIDA-B					
Number of Projects: 28			Subtotal:	383,750	1,361,896
				322,743	

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-64

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
Project Category: 96 - NONPOINT SOURCE POLLUTION					
R/CZ-136 (11470)	RICHARD WRIGHT	CALIFORNIA	25,263	0	22,080
Title: A GIS-BASED MONTHLY RIVER DISCHARGE MODEL FOR COASTAL WATERSHEDS IN SOUTHERN CALIFORNIA - BAJA CALIFORNIA					
R/ME-23 (11522)	J.R. SCUDLARK/T.M. CHURC	DELAWARE	0	40,000	0
Title: CHESAPEAKE BAY ATMOSPHERIC DEPOSITION PROGRAM 1997 CHEMICAL CONTAMINANT FIELD PROGRAM WORK PLAN					
R/EL-15 (11360)	ERIC HEINEN DE CARLO	HAWAII	15,940	0	25,614
Title: HEAVY METALS FLUXES TO THE NEARSHORE OCEAN DERIVED FROM NON-POINT SOURCE POLLUTION IN TWO SMALL ESTUARIES, O'AHU, HAWAII					
R/EL-17 (11361)	RICHARD W. GRIGG	HAWAII	27,934	0	34,268
Title: OCEANIC CLIMATE CHANGE AND NON-POINT SOURCE POLLUTION AS REVEALED BY 100 YEAR OLD CORALS IN HAWAII					
R/EL-12 (11363)	PAUL L. JOKIEL	HAWAII	29,263	0	30,693
Title: IMPACT OF PULSED STREAM FLOW ON THE DELIVERY OF LAND-DERIVED MATERIALS TO THE NEARSHORE MARINE ENVIRONMENT OF KANEOHE BAY					
A/SE-05-97 (11385)	LESLIE DORWORTH	ILLINOIS/INDIANA	79,050	0	15,732
Title: INVESTIGATION INTO WATER QUALITY ISSUES IN THE SOUTHERN LAKE MICHIGAN AREA					
R/PO-3 (11256)	NANCY E. BOCKSTAEL	MARYLAND	59,960	0	34,366
Title: THE NON-POINT SOURCE POLLUTION AND LAND USE IN THE PATUXENT WATERSHED					
R/P-9701 (11594)	MICHAEL P. WEINSTEIN	NEW JERSEY	0	35,000	0
Title: CHESAPEAKE BAY ATMOSPHERIC DEPOSITION PROGRAM, 1997 CHEMICAL CONTAMINANT FIELD PROGRAM WORKPLAN					
R/EC-9501 (10790)	RAYMOND WRIGHT	RHODE ISLAND	37,959	0	19,144
Title: CHARACTERIZATION OF NONPOINT SOURCES TO AN ESTUARY UNDER WET WEATHER CONDITONS					
R/EM-9501 (10797)	MALCOLM SPAULDING	RHODE ISLAND	41,684	0	20,995
Title: APPLICATION OF COASTMAP, A MONITORING AND MODELING SYSTEM, TO ASSIST IN WATER QUALITY MANAGEMENT					
Number of Projects: 10			Subtotal:	317,053	75,000 202,892

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-65

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
Project Category: 101 - HABITAT STRUCTURE AND FUNCTION					
R/CZ-141 (11469)	PAUL DAYTON	CALIFORNIA	0	0	0
Title: EFFECT OF SPORE ABUNDANCE ON RECRUITMENT AND MAINTENANCE OF SUBTIDAL KELP POPULATIONS					
R/ER-10 (11251)	DR. R. WARREN/DR. W. NIE	CONNECTICUT	31,320	0	35,502
Title: THE RESPONSE OF CONNECTICUT TIDAL WETLANDS TO SEA-LEVEL RISE: MICRO-RELIEF, VEGETATION, AND PATTERNS OF ACCRETION					
R/ER-2 (11254)	JOHN VAREKAMP/ELLEN THOM	CONNECTICUT	38,623	0	20,150
Title: HOW COASTAL SALTMARSHES GROW: INVESTIGATIONS OF LONG ISLAND SOUND AND DELAWARE BAY MARSHES					
R/C-E-37 (10023)	JEFFREY CHANTON	FLORIDA	50,863	0	25,432
Title: SIGNIFICANCE OF SUBMARINE GROUNDWATER DISCHARGE ON SEAGRASS DISTRIBUTION, BIOMASS AND PRODUCTIVITY					
R/LR-B-43 (11230)	Y. PETER SHENG	FLORIDA	79,461	0	39,735
Title: HYDRODYNAMIC PROCESSES AT ARTIFICIAL REEFS AND EFFECTS ON PLANKTON AND BAITFISH ABUNDANCE					
R/LR-B-44 (11231)	WILLIAM F. HERNNKIND	FLORIDA	73,744	0	36,080
Title: MEASURING AND MODELLING THE CONTRIBUTION OF SEAGRASS HABITAT TO JUVENILE SPINY LOBSTER RECRUITMENT IN FLORIDA BAY					
E/COP-1 (11476)	J. C. CATO/M. L. CLARKE	FLORIDA	0	180,000	0
Title: FLORIDA BAY OUTREACH AND COMMUNITY EDUCATION PROGRAM					
R/HAB-1 (11122)	MERRYL L. ALBER	GEORGIA	59,345	0	18,774
Title: ESTUARINE CREEK FRONTS: BIOLOGICAL INTERFACES BETWEEN TIDAL CREEKS AND ESTUARIES					
R/WQ-3 (11416)	WEI-JUN CAI	GEORGIA	51,931	0	27,950
Title: THE FLUXES AND SOURCES OF CARBON DIOXIDE IN THE ESTUARINE WATER OF GEORGIA					
R/EL-11 (11364)	HEINZ GERT	HAWAII	25,088	0	32,235
Title: DISEASE AND TUMORS IN CORALS: NATURAL AGENTS OF CHANGE IN HAWAIIAN REEF ECOSYSTEMS?					

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-66

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
R/EP-7 (11368)	JANE S. TRIBBLE	HAWAII	14,514	0	47,268
Title: SEDIMENTARY RECORD OF CLIMATE VARIATIONS AND HOLOCENE SEA LEVEL FLUCTUATIONS ON O'AHU					
R/CFB-20 (11013)	RICHARD F. SHAW	LOUISIANA	73,238	0	35,073
Title: APPLICATION OF A NEW TECHNIQUE: (1) FOR DETERMINATION OF POSTLARVAL AND JUVENILE FISH NURSERY GROUND/REFUGIA FUNCTION OF OFFSHORE OIL AND GAS PLATFORMS; AND (2) FOR BIOCHEMICAL RESOLUTION OF PROBLEMATIC IDENTIFICATION OF LARVAL ANCHOVY COMPLEX					
R/SAV-1 (11625)	JACK R. VAN LOPIK	LOUISIANA	0	25,000	0
Title: STRATEGIC ASSESSMENT AND VERIFICATION OF TECHNOLOGY FOR SUSTAINABLE COASTAL RESOURCES MANAGEMENT					
R/UNKNOWN (11631)	MICHAEL DAGG	LOUISIANA	0	45,000	13,853
Title: TROPHIC PATHWAYS IN THE PELAGIC ENVIRONMENT OF FLORIDA BAY: WORK PLAN AND BUDGET MODIFICATION					
R/ER-34 (11240)	MARK S. PETERSON	MISSISSIPPI/ALABAMA	48,483	0	24,687
Title: EFFECTS OF ENVIRONMENTAL VARIATION ON EARLY GROWTH AND SURVIVAL OF IMPORTANT ESTUARINE FISHES					
M/M-2PD (11355)	MICHAEL P. WEINSTEIN	NEW JERSEY	52,000	0	125,000
Title: MULTIPROGRAM INITIATIVE - MARSH ECOLOGY RESEARCH PROGRAM ON THE DELAWARE BAY (NJ COMPONENT)					
R/CO-5 (11273)	LAWRENCE R. SWANSON	NEW YORK	129,524	0	65,352
Title: PHYSICAL AND CLIMATOLOGICAL FACTORS AFFECTING HYPOXIA IN THE WESTERN LONG ISLAND SOUND, AND COMPARISON WITH THE NEW YORK BIGHT APEX SYSTEM					
R/FBF-9 (11275)	L.B. RUDSTAM/C.P. SCHNEI	NEW YORK	89,182	0	63,252
Title: THE ROLE OF EMBAYMENTS AND INSHORE AREAS OF LAKE ONTARIO AS NURSERY GROUNDS FOR YOUNG-OF-YEAR ALEWIFE AND OTHER SPECIES					
R/ER-39 (11405)	DAVID A. FRANCKO	OHIO	20,119	0	14,507
Title: VEGETATION DYNAMICS IN GREAT LAKES COASTAL WETLANDS: TOWARD A FIELD-BASED MODEL					
R/ES-972 (11420)	C. OVIATT	RHODE ISLAND	81,327	0	40,816
Title: ESTIMATE ANNUAL PRIMARY PRODUCTION IN NARRAGANSETT BAY					

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-67

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
R/ES-971	S. BRADLEY MORAN	RHODE ISLAND	79,258	0	38,689
(11421) Title: INVESTIGATION OF SUBMARINE GROUNDWATER DISCHARGE TO RHODE ISLAND COASTAL WATERS USING NATURAL RADIONUCLIDE TRACERS					
R/ER-10	LOREN D. COEN	SOUTH CAROLINA	120,882	0	51,389
(10268) Title: FUNCTIONAL ROLE OF OYSTER REEFS AS "CRITICAL" ESTUARINE HABITATS					
R/COP-6	WINONA B. VERNBERG	SOUTH CAROLINA	0	665,000	105,252
(10301) Title: URBANIZATION AND SOUTHEASTERN ESTUARINE SYSTEMS (USES)					
R/COP-10	GARY S. KLEPPEL/MICHAEL	SOUTH CAROLINA	0	27,000	0
(11550) Title: TROPHIC PATHWAYS IN PELAGIC ENVIRONMENT OF FLORIDA BAY					
R/F-59	ANDRE M. LANDRY, JR.	TEXAS	33,093	0	14,742
(10593) Title: POPULATION STATUS AND ECOLOGY OF KEMP'S RIDLEY SEA TURTLE IN A GULF OF MEXICO INDEX HABITAT					
R/F-67	PAUL LEVIN	TEXAS	63,283	0	28,471
(11336) Title: RECRUITMENT AND POST-RECRUITMENT MORTALITY ON RED DRUM IN GALVESTON BAY: WHAT NURSERY HABITATS ARE CRITICAL					
R/ES-76	GEORGE A. JACKSON	TEXAS	0	87,188	0
(11546) Title: DEVELOPMENT OF MODELS TO DESCRIBE ECOSYSTEM INTERACTIONS IN FLORIDA BAY					
R/CM-22	LINDA K. BLUM	VIRGINIA	57,166	0	31,153
(10932) Title: RELATIONSHIP BETWEEN NET COMMUNITY METABOLISM AND IMPORTANCE OF MICROBIALY-BASED FOOD CHAINS					
R/ES-9	BARBARA M. HICKEY	WASHINGTON	65,100	0	41,980
(10926) Title: WILLAPA BAY TRANSPORT PATHWAYS AND THEIR RELATION TO THE COASTAL OCEAN					
R/ES-9	BARBARA M. HICKEY	WASHINGTON	0	80,000	0
(10926) Title: WILLAPA BAY TRANSPORT PATHWAYS AND THEIR RELATION TO THE COASTAL OCEAN					
R/ES-19	DAVID ARMSTRONG	WASHINGTON	33,700	0	26,676
(11220) Title: POPULATIONS BIOMASS AND PRODUCTION OF CRAB IN A WASHINGTON ESTUARY					

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-68

<u>Project Number</u>	<u>PI</u>	<u>Program</u>	<u>Sea Grant</u>	<u>Pass Thru</u>	<u>Matching</u>
R/COP-FLBAY-2	NED P. SMITH	INDEPENDENT/OTHER	0	58,996	9,974
(11601) Title: FIELD OBSERVATION TO INITIALIZE AND VERIFY COMPUTER SIMULATIONS OF FLORIDA BAY CIRCULATION					

Number of Projects: 31

Subtotal: 1,371,244 1,168,184 1,013,992

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-69

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
Project Category: 102 - HABITAT RESTORATION					
R/CZ-139 (11460)	DAVID STODDART	CALIFORNIA	42,068	0	206,044
Title: PROCESSES OF TIDAL CHANNEL MORPHOLOGICAL EVOLUTION AND APPLICATION TO WETLAND RESTORATION AND CONSERVATION					
R/CZ-140 (11468)	LISA A. LEVIN	CALIFORNIA	49,574	0	47,236
Title: FAUNAL RECOVERY IN RESTORED WETLANDS					
R/C-S-36 (10016)	MICHAEL E. KANE	FLORIDA	57,859	0	31,438
Title: GENETIC CHARACTERIZATION OF ATLANTIC AND GULF COAST UNIOLA PANICULATA (SEA OATS) POPULATIONS: IMPLICATION OF VARIETAL SELECTION USING MICROPROPAGATION TECHNOLOGY					
R/MMR-13 (11014)	IRVING A. MENDELSSOHN	LOUISIANA	56,723	0	29,890
Title: MARSH RESTORATION WITH DREDGED SEDIMENT: THE EFFECT OF DIFFERENTIAL SEDIMENT ADDITION ON SALT MARSH STRUCTURE AND FUNCTION					
R/ER-27 (10925)	JONATHAN R. PENNOCK	MISSISSIPPI/ALABAMA	53,200	0	39,036
Title: NUTRIENT-ENHANCED PRODUCTION AND TROPIC DYNAMICS IN WEEKS BAY, ALABAMA					
UNKNOWN (11629)	MICHAEL P. WEINSTEIN	NEW JERSEY	15,000	0	60,000
Title: CONCEPTS AND CONTROVERSIES IN SALT MARSH ECOLOGY - AN INTERNATIONAL SYMPOSIUM					
Number of Projects: 6			Subtotal:	274,424	0 413,644

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-70

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
Project Category: 103 - AQUATIC NUISANCE SPECIES					
R/08-09 (11602)	N. FOSTER/A.HINES/J. CHA	ALASKA	92,405	0	150,199
Title: BIOLOGICAL INVASIONS OF COLD-WATER COASTAL ECOSYSTEMS: BALLAST-MEDIATED INTRODUCTIONS IN PORT VALDEZ/PRINCE WILLIAM SOUND, ALASKA					
R/CZ-133 (10660)	DONALD STRONG	CALIFORNIA	60,846	0	28,611
Title: HYBRIDIZATION BETWEEN ALIEN (SPARTINA ALTERNIFLORA) AND NATIVE (S. FOLIOSA) INTERTIDAL CORDGRASSES					
R/CZ-135 (11110)	CHARLES LAMBERT	CALIFORNIA	32,930	0	10,417
Title: THE INTRODUCTION OF NON-INDIGENOUS ASCIDIAN SPECIES INTO SOUTHERN CALIFORNIA HARBORS AND MARINAS					
R/CZ-147 (11612)	ARMAND M. KURIS	CALIFORNIA	144,444	0	74,023
Title: CONTAINMENT SABELLID PESTS OF CALIFORNIA ABALONE:ASSESSMENT OF HABITATS AND HOSTS OF RISK OF INFESTATION					
R/CZ-148 (11613)	KEVIN LAFFERTY	CALIFORNIA	138,587	0	73,706
Title: SAFETY AND EFFICACY OF GREEN CRAB BIOLOGICAL CONTROL					
R/CZ-149 (11614)	SUSAN WILLIAMS/EBERT THO	CALIFORNIA	196,699	0	96,511
Title: SETTLEMENT, SURVIVAL, GROWTH, AND REPRODUCTION OF THE NON-INDIGENOUS MUSSEL (MUSCULISTA SENHOUZIA) EFFECTS OF KELGRASS					
UNKNOWN (11633)	DOUGLAS SHERMAN/SUSAN E.	UNIV. OF SOUTHERN CALIFORNIA	46,865	0	26,937
Title: MITIGATING A ZEBRA MUSSEL INFESTATION IN CALIFORNIA: A MANAGEMENT TRAINING INITIATIVE					
R/ES-14 (11604)	J. ELLEN MARSDEN	CONNECTICUT	23,897	0	12,372
Title: DEGRADATION AND RESTORATION OF LAKE MICHIGAN: PAST AND FUTURE OF NONINDIGENOUS SPECIES					
A/UNKNOWN (11628)	MICHAEL LIFFMANN	FLORIDA	72,825	0	24,277
Title: GULF OF MEXICO REGION PROJECT RELATIVE TO INVASIONS OF ZEBRA MUSSELS AND OTHER NONINDIGENOUS NUISANCE SPECIES					

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-71

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
R/HAB-5 (11661)	SANDRA A. NIERZWICKI-BAU	GEORGIA Title: OPTIMIZING ZEBRA MUSSEL CONTROL AND PREVENTING DISPERSAL THROUGH IMPROVED VELIGER DETECTION USING AN RNA PROBE	14,146	0	13,419
A/SE(ANS)-06-97 (11615)	ROBIN GOETTEL	ILLINOIS/INDIANA Title: EXOTIC SPECIES DAY CAMP: A REGIONAL TEACHER TRAINING INITIATIVE EXTENDING SEA GRANT EDUCATION ON NONINDIGENOUS SPECIES	21,836	0	13,264
A/SE(ANS)-07-97 (11617)	PATRICE M. CHARLEBOIS	ILLINOIS/INDIANA Title: ZEBRA MUSSEL WORKSHOPS FOR INLAND WATER USERS: PREVENTION AND PROTECTION THROUGH EDUCATION	49,816	0	25,362
R/ANS-04-97 (11618)	DANIEL W. SCHNEIDER	ILLINOIS/INDIANA Title: A MODEL OF THE LAKE MICHIGAN-ILLINOIS RIVER ZEBRA MUSSEL METAPOPULATION: EVALUATING POSSIBLE CONTROL STRATEGIES	183,589	0	93,243
A/SE(ANS)-08-97 (11619)	PATRICE M. CHARLEBOIS	ILLINOIS/INDIANA Title: MODEL HACCP-LIKE PLAN TO RESTRICT THE SPREAD OF AQUATIC NUISANCE SPECIES VIA SALE OF BAITFISH AND FISH FOR STOCKING	25,916	0	13,651
A/SE(ANS)-09-97 (11620)	BRIAN K. MILLER/LADON SW	ILLINOIS/INDIANA Title: TRANSFERRING SEA GRANT ZEBRA MUSSEL RESEARCH AND OUTREACH RESULT TO THE NATION, USING A WORLD WIDE WEB SERVER AND COMPACT DISKS	103,269	0	55,317
R/ANS-05-97 (11621)	DAVID M. LODGE	ILLINOIS/INDIANA Title: DEGRADATION AND RESTORATION OF LAKE MICHIGAN: PAST AND FUTURE OF NONINDIGENOUS SPECIES (NIS)	201,047	0	121,758
R/ANS-06-97 (11622)	JOHN JANSSEN	ILLINOIS/INDIANA Title: INVASION SUSCEPTIBILITY AND ECOSYSTEM FRAGMENTATION OF GREAT LAKES COASTAL RIVERS AND LAKES BY THE NEWLY INTRODUCED ROUND (NEOGOBIOUS MELANOSTOMUS) AND TUBENOSE (PROTERORHINUS MARMORATUS) GOBIES	30,000	0	27,937
R/ZMM-1 (11623)	H. SILVERMAN	LOUISIANA Title: CILIARY STRUCTURES ON THE GILLS OF BIVALVE MOLLUSKS DETERMINE THEIR ABILITY TO CAPTURE BACTERIAL-SIZED PARTICLES: IMPLICATIONS FOR DISTRIBUTION, DIET, AND ACCUMULATION OF PATHOGENS	144,790	0	75,700

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-72

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
UNKNOWN (11624)	MICHAEL LIFFMANN/M.B. O'	LOUISIANA	80,267	0	25,017
Title: GULF OF MEXICO REGION PROJECT RELATIVE TO INVASIONS OF ZEBRA MUSSELS AND OTHER NONINDIGENOUS NUISANCE SPECIES					
R/ES-4 (10045)	GREGORY M. RUIZ	MARYLAND	72,402	0	28,926
Title: SUSCEPTIBILITY OF CHESAPEAKE BAY TO INVASIONS OF NON-INDIGENOUS SPECIES ASSOCIATED WITH BALLAST WATER					
R/ES-05 (11566)	G. M. RUIZ/A. H. HINES	MARYLAND	226,909	0	60,260
Title: THE RELATIVE IMPORTANCE OF BALLAST WATER FROM DOMESTIC SHIP TRAFFIC IN TRANSLOCATION OF NONINDIGENOUS SPECIES AMONG U.S. PORTS					
A-14 (11646)	JUDY PEDERSON	MASSACHUSETTS INST. OF TECH.	99,700	0	49,872
Title: OUTREACH AND EDUCATION PROPOSAL ON MARINE BIOINVASIONS					
RC-63 (11647)	L. DAVID SMITH	MASSACHUSETTS INST. OF TECH.	9,624	0	19,323
Title: THE RELATIVE IMPORTANCE OF BALLAST WATER FROM DOMESTIC SHIP TRAFFIC IN TRANSLOCATION OF NONINDIGENOUS SPECIES AMONG U.S. PORTS					
A/NIS-2 (11583)	JOHN D. SCHWARTZ	MICHIGAN	20,809	0	10,884
Title: EXOTIC SPECIES DAY CAMP: A REGIONAL TEACHER TRAINING INITIATIVE: EXTENDING SEA GRANT EDUCATION ON NONINDIGENOUS SPECIES					
A/NIS-1 (11584)	JOHN D. SCHWARTZ	MICHIGAN	40,064	0	22,312
Title: MODEL HACCP-LIKE PLAN TO RESTRICT THE SPREAD OF NONINDIGENOUS SPECIES (NIS) VIA SALE OF BAITFISH AND FARM RAISED FISH					
A/NIS-3 (11585)	JOHN D. SCHWARTZ	MICHIGAN	46,262	0	26,901
Title: ZEBRA MUSSEL WORKSHOPS FOR INLAND LAKE USERS: PREVENTION AND PROTECTION THROUGH EDUCATION					
R/NIS-2 (11586)	DAVID J. JUDE	MICHIGAN	158,502	0	170,314
Title: INVASION SUSCEPTIBILITY AND ECOSYSTEM FRAGMENTATION OF GREAT LAKES COASTAL RIVERS AND LAKES BY THE NEWLY INTRODUCED ROUND (NEOGOBIOUS MELANOSTOMUS) AND TUBENOS (PROTERORHINUS MARMORATUS) GOBIES					

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-73

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
R/NIS-1 (11587)	JOHN P. HOEHN/FRANK LUPI	MICHIGAN Title: THE POTENTIAL ECONOMIC DAMAGES OF RUFFE IN THE GREAT LAKES	148,719	0	75,617
C/A/C/NIS-2 (11588)	MARTHA L. WALTER	MICHIGAN Title: TRANSFERRING SEA GRANT ZEBRA MUSSEL RESEARCH AND OUTREACH RESULTS TO THE NATION, USING A WORLD WIDE WEBSERVER AND COMPACT DISKS (SGNIS)	17,127	0	11,074
C/A/C/NIS-1 (11589)	MARTHA L. WALTER	MICHIGAN Title: NATIONAL SEA GRANT EXOTIC SPECIES GRAPHICS LIBRARY	44,789	0	22,397
A/SE-10 (11649)	DOUGLAS A. JENSEN	MINNESOTA Title: TRANSFERRING SEA GRANT ZEBRA MUSSEL RESEARCH AND OUTREACH RESULTS TO THE NATION, USING A WORLD WIDE WEB SERVER AND COMPACT DISKS	23,412	0	12,673
A/SE-11 (11650)	DOUGLAS JENSEN/BRUCE H.	MINNESOTA Title: EXOTIC SPECIES DAY CAMP: A REGIONAL TEACHER TRAINING INITIATIVE EXTENDING SEA GRANT EDUCATION ON NONINDIGENOUS SPECIES	19,764	0	19,243
R/SE-12 (11651)	DOUGLAS JENSEN/M. MCDONA	MINNESOTA Title: ENHANCING, EXPANDING, AND OPERATING THE NATIONAL ZEBRA MUSSEL AND AQUATIC NUISANCE SPECIES (ANS) INFORMATION CLEARINGHOUSE	12,947	0	8,962
A/SE-13 (11652)	DOUGLAS JENSEN/MARIE SAL	MINNESOTA Title: MITIGATING A ZEBRA MUSSEL INFESTATION IN CALIFORNIA: A MANAGEMENT TRAINING INITIATIVE	13,624	0	7,587
A/SE-14 (11653)	PATRICIA M. CHARLEBOIS	MINNESOTA Title: ZEBRA MUSSEL WORKSHOPS FOR INLAND WATER USERS: PREVENTION AND PROTECTION THROUGH EDUCATION	15,916	0	9,084
A/SE-15 (11654)	JEFFREY GUNDERSON/DOUG J	MINNESOTA Title: MODEL HACCP-LIKE PLAN TO RESTRICT THE SPREAD OF AQUATIC NUISANCE SPECIES VIA SALE OF BAITFISH AND FISH FOR STOCKING	32,697	0	16,349
A/SE-16 (11655)	ANN CONRAD	MINNESOTA Title: AQUATIC NUISANCE SPECIES (ANS) DIGEST: FRESHWATER FOUNDATION HEIGHTENING AQUATIC NUISANCE SPECIES AWARENESS THROUGH A NATIONAL PUBLICATION	70,362	0	35,923

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-74

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
UNKNOWN (11656)	WILLIAM HOSKING/R.K. WAL	MISSISSIPPI/ALABAMA	128,661	0	64,356
Title: MISSISSIPPI-ALABAMA SEA GRANT CONSORTIUM COMPONENT: GULF OF MEXICO REGION PROJECT RELATIVE TO INVASIONS OF ZEBRA MUSSELS AND OTHER NONINDIGENOUS NUISANCE SPECIES					

R/F-9715 (11347)	K. W. ABLE	NEW JERSEY	55,816	0	28,111
Title: INFLUENCE OF PHRAGMITES INVASION ON THE STRUCTURE AND FUNCTION OF BRACKISH MARSH FISH NURSERIES					

R/CTP-23 (10994)	NICHOLAS S. FISHER	NEW YORK	2,222	0	13,046
Title: BIOACCUMULATION OF METALS BY ZEBRA MUSSELS					

R/XG-7 (11596)	S.A. NIERZWICKI-BAUER	NEW YORK	156,245	0	86,244
Title: OPTIMIZING ZEBRA MUSSEL CONTROL AND PREVENTING DISPERSAL THROUGH IMPROVED VELIGER DETECTION USING AN rRNA PROBE					

A/EEP-10 (11597)	DALE BAKER/CHARLES O'NEI	NEW YORK	103,002	0	48,252
Title: ENHANCING, EXPANDING, AND OPERATING THE NATIONAL ZEBRA MUSSEL AND AQUATIC NUISANCE SPECIES INFORMATION CLEARINGHOUSE					

A/SE(ANS)06-97 (11598)	DALE BAKER/HELEN DOMSKE	NEW YORK	6,577	0	2,964
Title: EXOTIC SPECIES DAY CAMP: A REGIONAL TEACHER TRAINING INITIATIVE					

R/ES-973 (11599)	BERND BLOSSEY	NEW YORK	56,665	0	0
Title: EVALUATION THE POTENTIAL FOR BIOLOGICAL CONTROL OF PHRAGMITES AUSTRALIS					

R/ER-36 (11125)	DAVID J. BERG/KENNETH KR	OHIO	24,779	0	19,633
Title: EFFECTS OF HABITAT MODIFICATION BY DREISSENA SPP. ON BURROWING MAYFLY SURVIVAL AND FITNESS					

R/ER-38 (11130)	PAUL BERKMAN/DAVID GARTO	OHIO	39,927	0	30,729
Title: ECOSYSTEM STATE CHANGES IN WESTERN LAKE ERIE: EXPANSION OF INVADING MUSSEL ASSEMBLAGES ON SOFT SUBSTRATES					

R/A-8 (11404)	KONRAD DABROWSKI/RICHARD	OHIO	21,666	0	40,215
Title: REGULATION OF FUNCTION IN SPERMATOOZOA OF THE SEA LAMPREY (PERTROMYZON MARINUS): THE FIRST STEP TO CONTRACEPTION					

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-75

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
R/PS-16 (11407)	SUSAN FISHER/PAUL BAYMAN	OHIO Title: ROUND GROBIES AND ZEBRA MUSSELS: TROPHIC INTERACTIONS AFFECTING CONTAMINANT CYCLING IN THE GREAT LAKES.	30,806	0	18,191

A/NIS-2 (11657)	MARAN BRAINARD	HILGENDOR OHIO Title: REPORT ON SEA GRANT - SUPPORTED NONINDIGENOUS SPECIES PROJECTS	55,992	0	27,996

A/NIS-1 (11658)	MARAN BRAINARD	HILGENDOR OHIO Title: OHIO SEA GRANT/BRUNSWICK MARINE PUBLICATIONS: PRODUCTION, MARKETING AND DISTRIBUTION OF PUBLICATIONS ON NUISANCE AQUATIC INVADERS	100,915	0	50,456

A/NIS-3 (11659)	FREDERIC L. SNYDER	OHIO Title: MODEL HACCP-LIKE PLAN TO RESTRICT THE SPREAD OF NIS VIA SALE OF BAITFISH AND FARM RAISED FISH	21,363	0	10,965

E/NIS-1 (11660)	ROSANNE FORTNER	OHIO Title: EXOTIC SPECIES DAY CAMP: A REGIONAL TEACHER TRAINING INITIATIVE EXTENDING SEA GRANT EDUCATION ON NONINDIGENOUS SPECIES	9,122	0	4,558

R/PS-23 (11669)	S.W. FISHER/P.C. STROMBE	OHIO Title: ENVIRONMENTAL TRANSMISSION OF HEPATITIS A VIRUS (HAV) IN A ZEBRA MUSSEL-DOMINATED FOODCHAIN	17,267	0	17,027✓

R/NIS-01 (11593)	JOHN CHAPMAN/GAYLE L. HA	OREGON Title: BIOLOGICAL INVASIONS OF COLD-WATER COASTAL ECOSYSTEMS:BALLAST-MEDIATED INTRODUCTIONS IN PORT VALDEZ/PRINCE WILLIAM SOUND, ALASKA	80,209	0	0

R/ES-74 (11639)	LUCIE MARANDA/PAUL HARGR	RHODE ISLAND Title: SPATIO-TEMPORAL DISTRIBUTION OF PROROCENTRUM LIMA IN COASTAL WATERS OF THE GULF OF MAINE	86,982	0	43,937

R/ES-973 (11640)	RICHARD CASAGRANDE	RHODE ISLAND Title: EVALUATING THE POTENTIAL FOR BIOLOGICAL CONTROL OF PHRAGMITES AUSTRALIS	141,378	0	104,349

R/OD-1 (11605)	D.BUSHEK/R.DAME	SOUTH CAROLINA Title: THE INFLUENCE OF ECOLOGICAL PROCESSES ON TRANSMISSION OF PERKINSUS MARINUS: DISPERSAL DILUTION AND HOST FILTRATION	84,456	0	41,854

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-76

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
R/ES-23 (10594)	JOHN W. TUNNELL, JR.	TEXAS	16,275	0	9,899
Title: PHYSIOLOGICAL TOLERANCES AND NONCHEMICAL CONTROL STRATEGIES FOR THE RECENTLY INTRODUCED MACROFOULING BROWN MUSSEL, PERNA PERNA					
A/F-9 (11648)	MIKE HIGHTOWER	TEXAS	68,246	0	34,124
Title: GULF OF MEXICO REGION PROJECT RELATIVE TO INVASIONS OF ZEBRA MUSSELS AND OTHER NONINDIGENOUS NUISANCE SPECIES					
R/ES-23 (11610)	ANNETTE M. OLSON/W.S. WO WASHINGTON		120,582	0	60,878
Title: CHARACTERIZING PATHWAYS FOR THE INTRODUCTION OF NONINDIGENOUS SPECIES VIA SHIPMENT OF LIVE SEAFOOD AND SCIENTIFIC SPECIMENTS					
R/ST-97139 (11497)	DAVID WRIGHT	INDEPENDENT/OTHER	10,001	0	0
Title: EFFECTIVENESS OF UV LIGHT IN ELIMINATING PATHOGENIC ORGANISMS FROM INDUSTRIAL INTAKES AND BALLAST WATER					
Number of Projects: 61			Subtotal:	4,159,690	0 2,310,179

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-77

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
Project Category: 104 - COASTAL AND GREAT LAKES HABITATS: CUMULATIVE IMPACTS					
R/C-E-40 (11234)	PETER K. SWART	FLORIDA	59,565	0	29,831
Title: BAY ESTUARY: USING CORALS TO DETECT AND RECONSTRUCT ENVIRONMENTAL CHANGE					
R/PT-5 (11016)	DENISE BRIETBURG ET AL	MARYLAND	0	1,498,750	0
Title: THE IMPORTANCE OF UNDERSTANDING ECOLOGICAL COMPLEXITY OF PREDICTING EFFECTS OF MULTIPLE STRESSORS ON COASTAL SYSTEMS					
R/CL-46 (10952)	ANNE E. HERSHEY	MINNESOTA	69,993	0	24,835
Title: WATERSHED EFFECTS ON STREAM PRODUCTIVITY AND WATER QUALITY DISCHARGE IN LAKE SUPERIOR TRIBUTARY STREAMS					
R/F-120 (11216)	RAY HILBORN	WASHINGTON	37,100	0	22,295
Title: RESTORING WASHINGTON'S SALMON: THE INTERACTION BETWEEN HABITAT, HARVEST, HATCHERIES AND OCEAN CONDITIONS					
Number of Projects: 4			Subtotal:	166,658	1,498,750
					76,961

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-78

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
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Project Category: 111 - SOCIOECONOMIC DIMENSIONS OF ENVIRONMENTAL CHANGE

R/MRD-32	V. KERRY SMITH	NORTH CAROLINA	0	0	16,990
(11033)	Title: INTEGRATING MARKET AND NON-MARKET IMPACTS OF ENVIRONMENTAL REGULATIONS FOR NET BENEFIT MEASUREMENTS: NUTRIENT CONTROL AND COASTAL RESOURCES				

R/COP-7	M. RICHARD DEVOE	SOUTH CAROLINA	0	85,000	9,187
(11059)	Title: SOUTH ATLANTIC BIGHT LAND USE COASTAL ECOSYSTEM STUDY (LU-CES)				

Number of Projects:	2	Subtotal:	0	85,000	26,177
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SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-79

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
Project Category: 112 - COASTAL MANAGEMENT POLICY TOOLS					
R/P-4	BILIANA CICIN-SAIN	DELAWARE	19,479	0	50,918
(10196)	Title: THE POLICY CONTEXT OF MARINE BIOTECHNOLOGY:EVOLVING NATIONAL/INTERNATIONAL REGULATORY FRAMEWORKS, POLICY, ISSUES & THE PUBLIC INTEREST				

A/CR-972	VIRGINIA LEE	RHODE ISLAND	0	32,000	0
(11637)	Title: RESCUE OF HISTORICAL DATA FOR NARRAGANSETT BAY NATIONAL ESTUARINE RESEARCH RESERVE				

Number of Projects: 2			Subtotal:	19,479	32,000 50,918

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-80

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
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Project Category: 113 - MULTIPLE USE MANAGEMENT AND CONFLICT RESOLUTION

R/ME-3 (11450)	JENNIFER WOLCH	UNIV. OF SOUTHERN CALIFORNIA	3,132	0	989
Title: ATTITUDES TOWARD MARINE WILDLIFE AMONG RESIDENTS OF SOUTHERN CALIFORNIA'S COAST					

R/CR-1 (11451)	STEVEN N. MURRAY	UNIV. OF SOUTHERN CALIFORNIA	38,792	0	33,541
Title: EXPERIMENTAL EVALUATION OF HUMAN IMPACT ON URBAN ROCKY SHORES AND THE VALUE OF COASTAL RESOURCES FOR RECREATION: IDENTIFYING THE BALANCE BETWEEN LONG-TERM CONSERVATION OF LIVING RESOURCES AND SHORT-TERM PRESSURES FOR HUMAN USE					

R/PO-1 (11367)	JOSEPH R. MORGAN	HAWAII	10,000	0	22,471
Title: POLICY OPTIONS FOR COASTAL ZONE MANAGEMENT--KAMAOA-PUUEO HAWAIIAN HOME LANDS, KA'U,HAWAII					

A/L-1 (10827)	MICHAEL W. WASCOM	LOUISIANA	77,528	0	52,129
Title: LEGAL ADVISORY SERVICE					

R/PPA-41 (10291)	RICHARD G. HGILDRETH	OREGON	59,645	0	50,253
Title: LAW OF THE SEA AND COASTAL COHO SALMON RECOVERY: PACIFIC NORTHWEST IMPLICATIONS					

Number of Projects:	5	Subtotal:	189,097	0	159,383
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SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-81

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
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Project Category: 115 - CUMULATIVE IMPACTS

R/ES-21	JEFFREY E. RICHEY	WASHINGTON	39,300	0	21,231
(11222) Title: PRISM: AN INTEGRATED ASSESSMENT MODEL OF PUGET SOUND					

Number of Projects: 1			Subtotal:	39,300	0	21,231
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SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-82

<u>Project Number</u>	<u>PI</u>	<u>Program</u>	<u>Sea Grant</u>	<u>Pass Thru</u>	<u>Matching</u>
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Project Category: 121 - SEVERE STORMS

R/OE-23	NOBUHISA KOBAYASHI	DELAWARE	18,000	0	0
(11509) Title: NEARSHORE WATER LEVEL CHANGES DURING SUPER DUCK EXPERIMENT					

Number of Projects: 1			Subtotal:	18,000	0	0
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SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-83

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
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Project Category: 122 - EARTHQUAKES AND TSUNAMIS

R/CP-33	STEPHEN E. DICKENSON	OREGON	19,564	0	0
(10292)	Title: SEISMIC PERFORMANCE OF WATERFRONT RETAINING STRUCTURES				

R-122-1-97	AURELIO MERCADO	PUERTO RICO	50,000	0	16,412
(11592)	Title: DETERMINATION OF THE TSUNAMI HAZARD FOR WESTERN PUERTO RICO FROM LOCAL SOURCES				

Number of Projects: 2			Subtotal:	69,564	0	16,412
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SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-84

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
Project Category: 123 - COASTAL PLANNING AND BUILDING CONSTRUCTION TECHNIQUES					
R/P-8	RICHARD D. SYLVES	DELAWARE	6,528	0	29,430
(11314)	Title: DISASTERS AND COASTAL STATES: A POLICY ANALYSIS OF APPROVALS, TURNDOWNS, SPATIAL IMPACTS AND RELIEF SPENDING 1953-95				

R/CZS-29	WALTER CLARK/DAVID BROWE	NORTH CAROLINA	0	0	6,030
(11034)	Title: COASTAL PUBLIC TRUST LANDS AND WATERS: LIMITATIONS AND OPPORTUNITIES FOR SUSTAINABLE PUBLIC AND PRIVATE USE				

ACR-961	VIRGINIA LEE	RHODE ISLAND	0	65,068	0
(11634)	Title: DEVELOPING PUBLIC-PRIVATE PARTNERSHIPS FOR HAZARD MITIGATION				

A/CR-971	VIRGINIA LEE	RHODE ISLAND	0	100,000	0
(11635)	Title: BUILDING CAPACITY OF COASTAL MANAGERS FOR HAZARD MITIGATION: TRAINING TO MAKE A DIFFERENCE				

	M. RICHARD DEVOE	SOUTH CAROLINA	27,383	0	40,000
(11607)	Title: FULL-SCALE WIND LOAD MONITORING TECHNOLOGY DEVELOPMENT AND IMPLEMENTATION				

Number of Projects:	5		Subtotal:	33,911	165,068
				75,460	

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-85

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
Project Category: 124 - SHORELINE PROCESSES AND EROSION					
R/OE-22 (11307)	N. KOBAYASHI	DELAWARE	6,795	0	38,526
Title: PROBABILISTIC MODELING OF SWASH ON BEACHES					
R/P-5 (11312)	G. R. PARSONS/T. D. TOMA	DELAWARE	35,259	0	20,432
Title: AN ECONOMIC ANALYSIS OF BEACH LOSS					
R/OE-19 (11315)	ROBERT A. DALRYMPLE	DELAWARE	4,530	0	46,744
Title: EDDIES IN THE NEARSHORE ZONE					
R/OE-20 (11316)	IB A. SVENDSEN	DELAWARE	5,285	0	56,492
Title: QUASI-3D ANALYSIS OF THE FLOW IN RIP CURRENTS AND AROUND COASTAL STRUCTURES					
R/OE-21 (11317)	JAMES T. KIRBY	DELAWARE	5,285	0	37,291
Title: WAVES IN INLETS: WAVE BREAKING ON OPPOSING EBB CURRENTS					
R/C-S-35 (10015)	ROBERT G. DEAN	FLORIDA	58,343	0	29,167
Title: QUANTIFICATION OF SHORT-AND LONG-TERM SHORELINE CHANGES DUE TO CROSS SHORE SEDIMENT TRANSPORT					
R/SD-1 (11417)	KRIESEL/KEELER/BERGSTROM	GEORGIA	73,894	0	45,206
Title: COASTAL EROSION MANAGEMENT OPTIONS: AN ECONOMIC ANALYSIS FOR GEORGIA'S ATLANTIC SHORE					
R/EP-9 (11362)	BECKER, JANET M.	HAWAII	27,115	0	20,745
Title: DYNAMICAL MODELS OF EROSION AND SAND TRANSPORT FOR ISLAND BEACHES					
R/EP-8 (11369)	CHARLES H. FLETCHEER, II	HAWAII	50,922	0	0
Title: MAPPING HISTORICAL SHORELINE CHANGES ON MAUI AND OAHU					
R/EP-10 (11370)	CHARLES H. FLETCHER, III	HAWAII	40,572	0	0
Title: WEST MAUI SHOREFACE SEDIMENT DYNAMICS					
RC-56 (11430)	OLE SECHER MADSEN	MASSACHUSETTS INST. OF TECH.	69,932	0	35,006
Title: Effect of Seawalls Longshore Currents					

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-86

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
R/O-30	W. R. GEYER/J. R. LEDWEL	WOODS HOLE OCEANOGRAPHIC INST.	58,024	0	13,424
(11104) Title: QUANTIFYING FLUSHING RATES OF ESTUARIES					

R/S-9702	NORBERT P. PSUTY	NEW JERSEY	46,488	0	47,309
(11353) Title: DUNE DEVELOPMENT AND FEMA STANDARDS: A TEST AND APPLICATION					

R/CCP-6	DANIEL C. CONLEY	NEW YORK	20,265	0	20,606
(10996) Title: SEDIMENT BYPASSING AT MORICHES INLET					

R/CZS-28	W. CLEARY/P. HOISER/S. R	NORTH CAROLINA	25,645	0	0
(11035) Title: A PICTORIAL ATLAS OF NORTH CAROLINA'S INLETS					

R/EG-9501	JON BOOTHROYD	RHODE ISLAND	16,988	0	13,675
(10783) Title: A SUSTAINABLE BEACH/DUNE REPLENISHMENT STRATEGY FOR THE MICROTIDAL BARRIER/HEADLAND COAST OF SOUTHERN RHODE ISLAND					

R/GS-1	LESLIE SAUTTER	SOUTH CAROLINA	0	254,100	109,652
(10233) Title: SOUTH CAROLINA COASTAL EROSION STUDY					

Number of Projects: 17			Subtotal:	545,342	254,100 534,275

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-87

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
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Project Category: 131 - VESSEL STABILITY RESEARCH

R/T-37	STEVEN W. SHAW/ARMIN TRO	MICHIGAN	142,528	0	76,603
(11341)	Title: RISK ANALYSIS OF COMMERCIAL FISHING VESSELS OPERATING IN EXTREME SEAS				

Number of Projects: 1			Subtotal:	142,528	0	76,603
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SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-88

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
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Project Category: 134 - RECREATIONAL AND COMMERCIAL DIVING

R/NI-25	RUDOLF T. DUELAND	WISCONSIN	45,484	0	37,578
(11144) Title: DIVER SAFETY AND EFFICIENCY					

R/NI-26	WILLIAM P. MORGAN	WISCONSIN	31,643	0	30,205
(11145) Title: PREDICTION OF ADHERENCE, HEALTH STATUS AND DIVING ACCIDENTS IN RECREATIONAL SCUBA DIVERS:A TEN-YEAR LONGITUDINAL STUDY					

Number of Projects:	2	Subtotal:	77,127	0	67,783
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SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-89

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
Project Category: 141 - EDUCATION: PRE-COLLEGE					
E/UG-4 (10467)	JAMES SULLIVAN	CALIFORNIA	10,000	0	3,281
Title: JOHN D. ISSACS MEMORIAL SEA GRANT SCHOLARSHIP					
R/E-11-1PT (11504)	JAMES J. SULLIVAN	CALIFORNIA	0	47,818	24,029
Title: OPERATION PATHFINDER: OCEANOGRAPHY AND COASTAL PROCESSES FOR ELEMENTARY AND MIDDLE SCHOOL TEACHERS					
E/T-7 (10696)	VALERIE COURNOYER	CONNECTICUT	52,627	0	20,643
Title: PROJECT LISTEN: LONG ISLAND SOUND TEACHER ENHANCEMENT NETWORK					
E/ENV-2 (11015)	LYLE M. SONIAT	LOUISIANA	38,089	0	15,103
Title: CROSS DISCIPLINARY MARINE EDUCATION RESOURCES					
R/VBE-1 (10836)	SHARI L. DANN/LUANNE KOZ	MICHIGAN	40,855	0	21,136
Title: DEVELOPMENT OF A TRANSFERABLE, MULTIDISCIPLINARY, VESSEL-BASED, EXPERIENTIAL EDUCATION MODEL					
E/O-55 (11247)	BONNIE J. KRAUSE	MISSISSIPPI/ALABAMA	10,494	0	5,268
Title: THE NORTH MISSISSIPPI RIVER-TO-SEA TRAVELING TRUNK					
E/O-56 (11248)	DAVID L. SCOTT	MISSISSIPPI/ALABAMA	18,393	0	17,946
Title: PROJECT WETLANDS (WATERS ESSENTIAL TO LAND AND SEA) FOR SUBURBAN SCHOOLS					
E/O-57 (11524)	J. TUPAZ/S. WALKER	MISSISSIPPI/ALABAMA	0	40,000	22,699
Title: PROJECT PATHFINDER: AN INTRODUCTION TO OCEANOGRAPHY AND COASTAL PROCESSES FOR ELEMENTARY AND MIDDLE SCHOOL TEACHERS					
E/O-57 (11524)	J. TUPAZ/S. WALKER	MISSISSIPPI/ALABAMA	8,581	0	0
Title: PROJECT PATHFINDER: AN INTRODUCTION TO OCEANOGRAPHY AND COASTAL PROCESSES FOR ELEMENTARY AND MIDDLE SCHOOL TEACHERS					

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-90

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
E/T-1 (11195)	MICHAEL P. WEINSTEIN	NEW JERSEY Title: NEW JERSEY MARINE SCIENCES CONSORTIUM EDUCATION PROGRAM	39,987	0	20,592
A/EA-10 (11453)	JAMES MURRAY	NORTH CAROLINA Title: 1997 OPERATION PATHFINDER: OCEANOGRAPHY AND COASTAL PROCESSES FOR ELEMENTARY AND MIDDLE SCHOOL TEACHERS MID-ATLANTIC REGION.	50,000	0	0
E/E-1 (11134)	ROSANNG FORTNER/VICTOR M OHIO	Title: EVALUATION OF PROGRAM EFFECTIVENESS AND CLASSROOM TECHNOLOGY USE IN GREAT LAKES EDUCATION	45,208	0	44,619
E/O-13 (11412)	L. R. SAUTTER	SOUTH CAROLINA Title: TESTING AND EVALUATING A TEACHING MODEL IN MARINE SCIENCE: THE COASTTEAM PROGRAM, PHASE II	39,494	0	31,340
ET/C-38 (11338)	VIOLETTA LIEN	TEXAS Title: DEVELOPMENT OF MIDDLE SCHOOL MARINE EDUCATION RESOURCE MANUAL	36,479	0	6,747
ET/C-37 (11340)	DAVID OWENS	TEXAS Title: MARINE TURTLES: SYMPTOMS OF AN EDUCATION NECESSITY	56,347	0	49,783
ET/C-39 (11600)	AMY BROUSSARD	TEXAS Title: NATIONAL MARINE EDUCATION PROGRAM	12,546	0	2,715
E-141-1-96 (11437)	ALIDA ORTIZ	PUERTO RICO Title: MARINE EDUCATION: A CROSS CULTURAL EXPERIENCE	48,962	0	51,594
E/METCON (10528)	ELBERT L. COX	INDEPENDENT/OTHER Title: NOAA ENGINEERING/SCIENCE CAREER ORIENTATION PROGRAM	0	58,784	26,380
Number of Projects: 17			Subtotal:	508,062	146,602
					363,875

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-91

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
Project Category: 142 - EDUCATION: UNIVERSITY					
E/70-10 (10685)	R. K. DEARBORN	ALASKA	129,326	0	44,419
Title: SEA GRANT TRAINEESHIPS					
E/G-9 (10471)	JAMES SULLIVAN	CALIFORNIA	19,400	0	11,705
Title: CALIFORNIA SEA GRANT STATE FELLOWSHIP PROGRAM					
E/G-2 (10665)	JAMES SULLIVAN	CALIFORNIA	544,784	0	60,672
Title: SEA GRANT TRAINEES					
E/DC-17 (11297)	JAMES J. SULLIVAN	CALIFORNIA	36,000	0	0
Title: NATIONAL SEA GRANT FELLOWSHIPS					
E/M-1 (10406)	SUSAN YODER	UNIV. OF SOUTHERN CALIFORNIA	58,000	0	5,000
Title: SEA GRANT GRADUATE TRAINEE					
E/M-3 (11299)	DOUGLAS J. SHERMAN	UNIV. OF SOUTHERN CALIFORNIA	36,000	0	0
Title: 1997 KNAUSS MARINE POLICY FELLOWSHIP FOR L. NACHBAR					
E/I-5 (11411)	EDWARD C. MONAHAN	CONNECTICUT	36,000	0	0
Title: Knauss Marine Policy Fellowship - Christos Michalopoulos					
E/G-1 (10208)	RICHARD W. TARPLEY	DELAWARE	338,650	0	44,327
Title: GRADUATE EDUCATION					
E/INDST-1 (10364)	JAMES C. CATO	FLORIDA	22,070	0	29,102
Title: THE USE OF GIANT CLAM (TRIDACNA) TO REMOVE PARTICULATE AND DISSOLVED NUTRIENTS IN AQUACULTURE EFFLUENTS					
E/EDU-1 (11120)	EDITH SCHMIDT	GEORGIA	34,155	0	73,396
Title: MARINE EDUCATION AND TRAINING					

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-92

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
E/EDU-3 (11191)	DENISE M. STEPHENSON-HAW	GEORGIA Title: HBCU CAPACITY DEVELOPMENT CENTER.	50,000	0	24,801
E/EDU-2 (11192)	MATTHEW R. GILLIGAN	GEORGIA Title: INCREASING DIVERSITY IN MARINE RESEARCH AND EDUCATION	50,000	0	29,892
E/MUR-1 (10823)	CHARLES A. WILSON	LOUISIANA Title: LOUISIANA UNDERGRADUATE RESEARCH OPPORTUNITIES PROGRAM	25,800	0	4,772
E/SGI-1 (11324)	JACK R. VAN LOPIK	LOUISIANA Title: DEAN JOHN A. KNAUSS MARINE POLICY FELLOWSHIP	0	36,000	70
E/A-10 (10191)	M. R. SWIFT	MAINE/NEW HAMPSHIRE Title: OPPORTUNITIES FOR UNDERGRADUATE RESEARCH AND DEVELOPMENT IN MARINE SCIENCE AND ENGINEERING	23,001	0	43,813
E/A-15 (11325)	ROBERT E. WALL	MAINE/NEW HAMPSHIRE Title: DEAN JOHN KNAUSS POLICY FELLOW: GREG BALCO	36,000	0	0
E-1 (10041)	GAIL B. MACKIERNAN	MARYLAND Title: SEA GRANT TRAINEE PROGRAM	140,000	0	17,020
R/E-19 (11186)	CAROLYN BROOKS	MARYLAND Title: PROVIDING INCENTIVES AND QUALITY PROGRAMS TO ATTRACT MINORITIES TO CAREERS IN THE MARINE SCIENCES	50,000	0	37,142
E-16 (11301)	CHRISTOPHER D'ELIA	MARYLAND Title: DEAN JOHN A. KNAUSS FELLOWSHIP	36,000	0	0
E-16-A (11302)	CHRISTOPHER D'ELIA	MARYLAND Title: DEAN JOHN A. KNAUSS MARINE POLICY FELLOWSHIP: JILL T. STEVENSON	0	36,000	0
E-5 (10390)	JOHN J. CALLAHAN	MASSACHUSETTS INST. OF TECH. Title: MIT SEA GRANT/MIT JOINT PROGRAM IN MARINE EDUCATION AND TRAINING	55,000	0	215,489

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-93

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
E-01 (10391)	C. CHRYSOSTOMIDIS	MASSACHUSETTS INST. OF TECH.	25,000	0	44,203
Title: MIT SEA GRANT UNDERGRADUATE RESEARCH OPPORTUNITIES PROGRAM					
E/I-26 (11296)	RUSSELL A. MOLL	MICHIGAN	0	36,000	0
Title: NOAA - SEA GRANT FELLOW - ANNE GORE					
E/T-3 (10420)	MICHAEL MCDONALD	MINNESOTA	136,876	0	0
Title: MINNESOTA SEA GRANT ASSISTANTSHIPS					
E/PS-1 (10322)	CORNELIA G. SCHLENK	NEW YORK	194,190	0	0
Title: SEA GRANT SCHOLARS					
E/GS-4 (10459)	B. J. COPELAND	NORTH CAROLINA	291,138	0	0
Title: SEA GRANT GRADUATE RESEARCH STIPENDS					
E/SGI-21 (11264)	W.F. CLARK/B.J. COPELAND	NORTH CAROLINA	36,000	0	14,887
Title: DEAN JOHN A. KNAUSS POLICY FELLOW - JAMES REILLY					
E/SGI-20 (11270)	W.F. CLARK/B.J. COPELAND	NORTH CAROLINA	0	36,000	14,887
Title: DEAN JOHN A. KNAUSS POLICY FELLOW: ELISABETH MORGAN					
E/INT-25 (11320)	ROBERT E. MALOUF	OREGON	36,000	0	0
Title: DEAN JOHN A. KNAUSS MARINE POLICY FELLOWSHIP - DANIEL A. TERRELL					
E/INT-26 (11505)	ROBERT E. MALOUF	OREGON	36,000	0	0
Title: DEAN JOHN A. KNAUSS MARINE POLICY FELLOWSHIP - JOY MULINEX					
E/F-26 (11319)	SCOTT W. NIXON	RHODE ISLAND	0	36,000	18,000
Title: DEAN JOHN A. KNAUSS MARINE POLICY FELLOWSHIP - LOUISE KANE					
E/F-11 (11162)	RICHARD DEVOE/LEIGH J. H	SOUTH CAROLINA	0	287,000	0
Title: A TRAINING AND EDUCATION PROGRAM FOR COASTAL RESOURCE MANAGERS					

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-94

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
M/P/M-5 (11608)	LEIGH HANDAL	SOUTH CAROLINA Title: AN OVERVIEW AND PUBLIC ACCOUNTING OF THE NATIONAL SEA GRANT COLLEGE PROGRAM'S RESEARCH, EDUCATION AND OUTREACH ACCOMPLISHMENTS 1996-1997	36,000	0	10,969
ET/C-24 (11266)	ROBERT R. STICKNEY	TEXAS Title: SEA GRANT INTERNSHIP -1997	0	72,000	0
E/KF-97-2 (11294)	RUSSELL W. CALLENDER	VIRGINIA Title: DEAN JOHN A. KNAUSS MARINE POLICY FELLOWSHIP - 1997 FOR JENNIFER J. NEWTON.	36,000	0	0
E/KF-97-1 (11295)	RUSSELL W. CALLENDER	VIRGINIA Title: DEAN JOHN A. KNAUSS MARINE POLICY FELLOWSHIP - 1997 - FOR ANAMARIJA FRANKIC	36,000	0	0
R/F-119 (11061)	T. QUINN/R.BILBY WEYERHA	WASHINGTON Title: FACTORS AFFECTING THE GROWTH, SURVIVAL, HABITAT USE AND COMPETITIVE SUCCESS OF NATURALLY-REARED AND HATCHERY-REARED COHO SALMON.	23,201	0	32,685
E/I-1(A) (11321)	LOUIE S. ECHOLS	WASHINGTON Title: KNAUSS SEA GRANT FELLOWSHIPS - THERESA MARSH	0	36,000	0
E/I-1(B) (11322)	LOUIE S. ECHOLS	WASHINGTON Title: KNAUSS SEA GRANT FELLOWSHIPS - KATHARINE T. WING	36,000	0	0
E/E-1 (10141)	MARY LOU REEB	WISCONSIN Title: SPECIAL MARINE EDUCATION PROGRAMS	28,629	0	39,954
E/E-29 (11323)	MARY LOU REEB	WISCONSIN Title: DEAN JOHN A. KNAUSS MARINE POLICY FELLOWSHIP	0	72,000	0
E-142-1-97 (11402)	MANUEL VALDES-PIZZINI	PUERTO RICO Title: DEAN JOHN A. KNAUSS MARINE POLICY FELLOWSHIP - RONALD HILL	0	36,000	0
E-141-2-97 (11438)	ALIDA ORTIZ	PUERTO RICO Title: MARINE EDUCATION (ADJUSTMENT)	10,000	0	0

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-95

<u>Project Number</u>	<u>PI</u>	<u>Program</u>	<u>Sea Grant</u>	<u>Pass Thru</u>	<u>Matching</u>
E/AFS-1	PAUL BROUHA	INDEPENDENT/OTHER	40,000	0	8,000
(11545) Title: AMERICAN FISHERIES SOCIETY SEA GRANT INTERN					

Number of Projects: 44			Subtotal:	2,721,220	683,000 825,205

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-96

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
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Project Category: 143 - EDUCATION: INFORMAL

A/SE-04-97-B (11389)	CHRIS SIGURDSON	ILLINOIS/INDIANA	24,500	0	8,764
Title: CREATING AN INFORMED PUBLIC: A MEDIA CAMPAIGN TO IMPROVE ENVIRONMENTAL ISSUE AWARENESS AMONG GRAND CALUMET AREA RESIDENTS					

A-01 (11092)	RICHARD G. MORRIS	MASSACHUSETTS INST. OF TECH.	136,300	0	98,259
Title: MIT SEA GRANT MARINE INDUSTRY COLLEGIUM					

E/RC-61 (11529)	CHRYSSOSTOMIDIS/SAPOLSKY	MASSACHUSETTS INST. OF TECH.	0	50,000	0
Title: ANTI-SUB-MARINE WARFARE CONFERENCE					

E/ST-1 (11531)	RONALD G. HODSON	NORTH CAROLINA	29,969	0	32,241
Title: RESPONSE OF TUNA MUSCLE PROTEIN TO THERMAL PROCESSING A SEA GRANT INDUSTRIAL FELLOW PROGRAM PARTNERSHIP WITH NCSU AND STARKIST SEAFOOD					

M/P/M-4 (11606)	LEIGH HANDAL/LINDA BLACK	SOUTH CAROLINA	25,000	0	0
Title: THE COMMUNICATOR: CREATING A MORE COHESIVE AND INFORMED SEA GRANT NETWORK THROUGH AN EDUCATIONAL NEWSLETTER FOR INTERNAL AUDIENCES					

Number of Projects: 5			Subtotal:	215,769	50,000	139,264
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SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-97

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
Project Category: 151 - MARINE ADVISORY SERVICE: CORE					
A/71-01 (10688)	D. E. KRAMER	ALASKA Title: ALASKA MARINE ADVISORY PROGRAM	431,176	0	525,859
A/EA-1 (10468)	CHRISTOPHER DEWEES	CALIFORNIA Title: SEA GRANT EXTENSION PROGRAM (SGEP)	688,000	0	495,557
A/AE-1 (10408)	SUSAN E. YODER/D. P. HAR	UNIV. OF SOUTHERN CALIFORNIA Title: MARINE ADVISORY SERVICES AND EDUCATION	183,250	0	18,787
A/E-1 (10697)	NANCY BALCOM/HEATHER CRA	CONNECTICUT Title: SEA GRANT MARINE ADVISORY PROGRAM	138,958	0	76,742
A/E-3 (10698)	GABOURY BENOIT	CONNECTICUT Title: COASTAL MARINE EXTENSION AGENT INTERNS: DEVELOPMENT AND COORDINATION OF PUBLIC POLICY AND ENVIRONMENTAL EDUCATION	20,122	0	12,296
A/I-1 (10210)	KENT S. PRICE	DELAWARE Title: MARINE ADVISORY SERVICE	254,566	0	319,007
A/SGEP-11 (10026)	JOHN L. WOESTE	FLORIDA Title: FLORIDA SEA GRANT EXTENSION PROGRAM	625,100	0	337,631
A/MAS-1 (11118)	KEITH W. GATES	GEORGIA Title: ADVISORY SERVICES - GENERAL	206,990	0	106,107
A/AS-1 (10628)	BRUCE J. MILLER	HAWAII Title: SEA GRANT EXTENSION	500,000	0	154,587
A/SE-1B-97 (11390)	LADON SWANN/MARK EINSTEN	ILLINOIS/INDIANA Title: MARINE ADVISORY SERVICES - AQUACULTURE	55,471	0	25,873
A/SE-04-97 (11391)	BRIAN MILLER	ILLINOIS/INDIANA Title: ILLINOIS-INDIANA SEA GRANT PROGRAM	45,742	0	51,000

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-98

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
A/EXT-1 (10825)	KENNETH J. ROBERTS Title: MARINE ADVISORY SERVICES IN THE LOUISIANA COOPERATIVE EXTENSION SERVICE	LOUISIANA	232,982	0	272,232
A/P-1 (10182)	BRIAN DOYLE Title: SEA GRANT MARINE ADVISORY PROGRAM	MAINE/NEW HAMPSHIRE	395,407	0	202,000
A/T-1 (10040)	DOUGLAS LIPTON Title: SEA GRANT EXTENSION PROGRAM	MARYLAND	210,000	0	463,688
A/O-2 (10434)	GRAHAM S. GIESE Title: MARINE ADVISORY SERVICE	WOODS HOLE OCEANOGRAPHIC INST.	119,595	0	53,854
A/FP-1 (10834)	JOHN D. SCHWARTZ/LEE H. Title: MICHIGAN SEA GRANT EXTENSION	MICHIGAN	417,536	0	209,699
A/FP-1A (11424)	JOHN D. SCHWARTZ Title: MICHIGAN SEA GRANT EXTENSION	MICHIGAN	6,200	0	0
A/SE-1 (10423)	JEFFREY GUNDERSON Title: MINNESOTA SEA GRANT EXTENSION PROGRAM	MINNESOTA	336,845	0	190,312
A/O-9 (10159)	WILLIAM HOSKING Title: SEA GRANT ADVISORY ALABAMA COMPONENT	MISSISSIPPI/ALABAMA	93,700	0	46,904
A/O-9 (10160)	DAVID VEAL Title: MISSISSIPPI SEA GRANT ADVISORY SERVICE PROGRAM	MISSISSIPPI/ALABAMA	80,000	0	102,060
A/S-1 (10581)	ALEX W. WYPYSZINSKI Title: NEW JERSEY SEA GRANT MARINE ADVISORY SERVICE	NEW JERSEY	125,000	0	66,526
A/EEP-1 (10321)	DALE R. BAKER Title: SEA GRANT EXTENSION PROGRAM	NEW YORK	649,400	0	393,878
A/EA-10 (10461)	J. D. MURRAY Title: MARINE ADVISORY SERVICE PROGRAM	NORTH CAROLINA	552,656	0	396,443

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-99

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
A/EP-1 (10225)	LEROY J. HUSHAK/JOHN D.	OHIO Title: OHIO SEA GRANT EXTENSION PROGRAM	306,030	0	161,113
A/ESG-3 (10297)	EDWAD KOLBE	OREGON Title: OREGON EXTENSION SEA GRANT	690,000	0	690,295
A/CR-9501 (10801)	VIRGINIA LEE	RHODE ISLAND Title: RHODE ISLAND SEA GRANT MARINE ADVISORY SERVICES: COASTAL MANAGEMENT PROGRAM	290,645	0	137,295
A/F-9501 (10802)	KATHLEEN CASTRO	RHODE ISLAND Title: MARINE ADVISORY SERVICES FISHERIES, AQUACULTURE, AND SEAFOOD PROGRAM	143,419	0	88,578
A/E-1 (10271)	ROBERT H. BACON	SOUTH CAROLINA Title: S. C. MARINE EXTENSION PROGRAM	225,322	0	170,421
A/F-1 (10604)	MIKE HIGHTOWER	TEXAS Title: MARINE ADVISORY SERVICES	440,000	0	245,241
A/EP-1 (10935)	WILLIAM D. DuPAUL	VIRGINIA Title: VIRGINIA SEA GRANT MARINE ADVISORY PROGRAM	575,768	0	415,262
A/FP-7 (10755)	MICHAEL SPRANGER	WASHINGTON Title: WASHINGTON SEA GRANT PROGRAM MARINE ADVISORY SERVICES	696,300	0	393,286
A/AS-1 (10137)	ALLEN H. MILLER	WISCONSIN Title: ADVISORY SERVICES: PROGRAM COORDINATION AND FIELD OFFICES	240,141	0	310,092
M-151-1-96 (11440)	JAVIER VELEZ-AROCHO	PUERTO RICO Title: MARINE ADVISORY SERVICES (RENEWAL)	125,694	0	139,931
M-151-1-97 (11441)	JAVIER VELEZ AROCHO	PUERTO RICO Title: MARINE ADVISORY SERVICES (ADJUSTMENT)	60,000	0	0

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-100

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
M-151-2-96	LAVERNE E. RAGSTER	PUERTO RICO	49,480	0	61,279
(11442) Title: US VIRGIN ISLANDS MARINE ADVISORY SERVICES (RENEWAL)					

M-151-2-97	LAVERNE RAGSTER	PUERTO RICO	10,000	0	0
(11443) Title: U.S.V.I. MARINE ADVISORY SERVICES (ADJUSTMENT)					

Number of Projects: 36			Subtotal:	10,221,495	0 7,333,835

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-101

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
Project Category: 152 - MARINE ADVISORY SERVICE: SPECIAL PROJECTS					
A/MAS-3 (11115)	RANDAL L. WALKER	GEORGIA Title: SHELLFISH RESOURCE SPECIALIST FOR COASTAL GEORGIA	58,103	0	27,390

A/P-28 (11632)	DONALD SUNDBERG	MAINE/NEW HAMPSHIRE Title: CAPABILITY ASSESSMENT AND COMMERCIALIZATION PLAN	0	99,000	50,001

A-03 (11094)	MADELEIN HALL-ARBER	MASSACHUSETTS INST. OF TECH. Title: MASSACHUSETTS MARINE LIASION SERVICE	41,900	0	15,319

A-05 (11096)	JUDITH PEDERSON	MASSACHUSETTS INST. OF TECH. Title: FACULTY/STUDENT MARINE ADVISORY SERVICE	42,938	0	23,162

A/TT/NCRI-96-PD (11052)	STEVEN G. OLSON	INDEPENDENT/OTHER Title: TECHNOLOGY TRANSFER FOR STRENGTHENING U.S. COASTAL ECONOMIES.	950,000	0	0✓

Number of Projects:	5		Subtotal:	142,941	99,000 115,872

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-102

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
Project Category: 161 - COMMUNICATIONS: CORE					
C/A/75-01 (10689)	B.R. BAXTER & K. M. BYER Title: PUBLIC INFORMATION SERVICES	ALASKA	143,169	0	315,384
C/A/75-01A (11422)	B. R. BAXTER/K. M. BYERS Title: PUBLIC INFORMATION SERVICES	ALASKA	6,500	0	0
C/A/P-1 (10469)	JAMES SULLIVAN Title: COMMUNICATIONS PROGRAM	CALIFORNIA	313,905	0	62,283
C/M-3 (10407)	PHYLLIS GRIFMAN Title: COMMUNICATIONS AND PUBLICATIONS	UNIV. OF SOUTHERN CALIFORNIA	103,700	0	26,474
C/CP-1 (10701)	MARGARET VAN PATTERN Title: CORE COMMUNICATIONS PROGRAM	CONNECTICUT	125,331	0	0
C/A/I-5 (10211)	T. L. BRYANT/P. L. DONNE Title: SEA GRANT COMMUNICATIONS	DELAWARE	173,204	0	120,569
C/COMM-3 (10027)	J. T. WOESTE Title: FLORIDA SEA GRANT COMMUNICATIONS PROGRAM	FLORIDA	134,900	0	68,908
C/COM-1 (11119)	CHARLOTTE INGRAM Title: COMMUNICATIONS PROGRAM	GEORGIA	114,877	0	0
C/M/C-1 (10629)	PRISCILLA BILLIG Title: THE COMMUNICATIONS PROGRAM	HAWAII	125,000	0	36,000
C/A/SE-02-97 (11388)	ROBIN G. GOETTEL/NANCY F Title: COMMUNICATIONS	ILLINOIS/INDIANA	126,060	0	40,033
C/A/P-1 (10826)	ELIZABETH B. COLEMAN Title: PUBLICATIONS AND INFORMATION DISSEMINATION	LOUISIANA	57,997	0	123,028

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-103

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
C/C-1 (10185) Title: COMMUNICATIONS AND INFORMATION PROGRAM	KATHLEEN LIGNELL	MAINE/NEW HAMPSHIRE	226,457	0	87,375
C/M-4 (10038) Title: SEA GRANT COMMUNICATIONS	JOHN GREER	MARYLAND	148,801	0	140,936
C-04 (11095) Title: MARINE COMMUNICATIONS/INFORMATION SERVICE	CAROLYN A. LEVI	MASSACHUSETTS INST. OF TECH.	249,600	0	80,625
C/A/S-14 (10433) Title: COMMUNICATIONS, PUBLIC OUTREACH AND EDUCATION	JUDITH MCDOWELL	WOODS HOLE OCEANOGRAPHIC INST.	90,969	0	17,576
C/A/C-1 (11425) Title: MICHIGAN SEA GRANT COMMUNICATIONS	MARTHA L. WALTER	MICHIGAN	169,308	0	82,503
C/M/C-1 (10426) Title: MINNESOTA SEA GRANT COMMUNICATIONS	MARIE SALES	MINNESOTA	108,019	0	29,374
C/M/PC-1 (10158) Title: PROGRAM MANAGEMENT - COMMUNICATIONS	LINDA C. SKUPIEN/JESUS T	MISSISSIPPI/ALABAMA	112,045	0	51,941
C/A/S-2 (10582) Title: NEW JERSEY SEA GRANT COMMUNICATIONS	KIM KOSKO	NEW JERSEY	72,720	0	39,748
C/PC-1 (10326) Title: COMMUNICATIONS	JULIE M. ZEIDNER	NEW YORK	123,505	0	0
C/D/A-3 (10462) Title: PROGRAM COMMUNICATIONS	K. HART	NORTH CAROLINA	101,078	0	137,313
C/M/P-2 (10226) Title: OHIO SEA GRANT COMMUNICATIONS PROGRAM	MARAN BRAINARD	HILGENDOR OHIO	56,293	0	23,563
C/M/A-12 (10300) Title: SEA GRANT COMMUNICATIONS	JOSPEH S CONE	OREGON	275,001	0	144,293

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-104

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
C/A/I-9501 (10803) Title: THE RHODE ISLAND SEA GRANT COMMUNICATIONS PROGRAM	CAROLE JAWORSKI	RHODE ISLAND	226,880	0	26,386

C/M/P/M-3 (10273) Title: COMMUNICATIONS	LEIGH HANDAL	SOUTH CAROLINA	95,108	0	33,450

C/A/I-1 (10605) Title: MARINE INFORMATION SERVICES	AMY BROUSSARD	TEXAS	177,479	0	95,000

C/A/PC-5 (10756) Title: WASHINGTON SEA GRANT PROGRAM COMMUNICATIONS	NANCY E. BLANTON	WASHINGTON	285,200	0	52,031

C/A/AS-2 (10139) Title: COMMUNICATIONS OFFICE AND PROGRAM COORDINATION	STEPHEN C. WITTMAN	WISCONSIN	152,004	0	184,820

C-161-1-96 (11444) Title: UPRSGCP COMMUNICATIONS/PUBLICATIONS (RENEWAL)	LAURA COTTE	PUERTO RICO	93,972	0	114,597

C-161-1-97 (11445) Title: UPRSGCP COMMUNICATIONS/PUBLICATIONS: IMPROVEMENTS	LAURA COTTE	PUERTO RICO	39,300	0	0

Number of Projects: 30		Subtotal:	4,228,382	0	2,134,210

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-105

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
Project Category: 162 - COMMUNICATIONS: SPECIAL PROJECTS					
C/M-4A (10039)	JOHN GREER	MARYLAND Title: NETWORK MEDIA RELATIONS SPECIALIST	137,250	0	68,880
C/M-4B (11255)	DAN JACOBS	MARYLAND Title: NATIONAL SEA GRANT NETWORK INTERNET PROJECT	20,000	0	16,981
C/M/C-2 (11185)	MICHAEL MCDONALD	MINNESOTA Title: A SEA GRANT NATIONAL ISSUES FORUM - BIOTECHNOLOGY	6,000	0	0
C/A/COM-1 (11525)	CYNTHIA J. MURRAY	RHODE ISLAND Title: CONTINUING AND NEW ACTIVITIES OF THE NATIONAL SEA GRANT DEPOSITORY	151,695	0	0
C/M/PM-1A (11423)	M. RICHARD DEVOE	SOUTH CAROLINA Title: PROGRAM MANAGEMENT - SEA GRANT ABSTRACTS	89,900	0	0
C/R/ES-13 (10752)	ROBERT MIYAMOTO	WASHINGTON Title: PUGET SOUND MULTIMEDIA CD-ROM	45,000	0	20,000
C/A/AS-3 (10140)	RICHARD W. HOOPS/SARAH C	WISCONSIN Title: EARTHWATCH PUBLIC SERVICE RADIO PROGRAM	42,578	0	42,048
C/A/AS-38 (11147)	STEPHEN C. WITTMAN	WISCONSIN Title: ICE-WATER MANSIONS: MULTI-MEDIA SITE GUIDES TO LAKE SUPERIOR SHIPWRECKS	24,613	0	14,996
Number of Projects: 8			Subtotal:	517,036	0 162,905

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-106

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
Project Category: 170 - PROGRAM ADMINISTRATION					
M/79-01 (10690) Title: PROGRAM ADMINISTRATION	R. K. DEARBORN	ALASKA	94,875	0	194,595
M/A-1 (10473) Title: MANAGEMENT	JAMES SULLIVAN	CALIFORNIA	264,441	0	122,489
M/1 (10409) Title: ADMINISTRATION AND MANAGEMENT	D. PATRICK HARTNEY	UNIV. OF SOUTHERN CALIFORNIA	32,700	0	122,891
M/PA-1 (10699) Title: PROGRAM MANAGEMENT: ADMINISTRATION AND PLANNING	EDWARD C. MONAHAN	CONNECTICUT	129,716	0	179,955
M/M-1 (10213) Title: PROGRAM MANAGEMENT	C. THOROUGHGOOD/R. W. TA	DELAWARE	55,877	0	76,594
M/PM-11 (10865) Title: FLORIDA SEA GRANT COLLEGE MANAGEMENT	JAMES C. CATO	FLORIDA	169,000	0	84,546
M/AD-1 (11123) Title: PROGRAM MANAGEMENT	MAC V. RAWSON, JR.	GEORGIA	86,631	0	98,841
M/PM-1 (10630) Title: PROGRAM MANAGEMENT AND ADMINISTRATION	CHARLES HELSLEY	HAWAII	126,314	0	18,000
M/P-01-97 (11384) Title: ILLINOIS-INDIANA SEA GRANT PROGRAM - PROGRAM MANAGEMENT	PHILLIP E. POPE	ILLINOIS/INDIANA	28,617	0	38,790
M/P-02-97 (11387) Title: ILLINOIS-INDIANA SEA GRANT RESEARCH PROPOSAL COORDINATION	JOHN B. BRADEN/PHILLIP E	ILLINOIS/INDIANA	15,994	0	8,021
M/A-1 (10828) Title: PROGRAM ADMINISTRATION	JACK R. VAN LOPIK	LOUISIANA	40,787	0	211,677

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-107

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
M/A-1 (10183) Title: PROGRAM MANAGEMENT	ROBERT WALL	MAINE/NEW HAMPSHIRE	183,686	0	245,183
M-1 (10036) Title: SEA GRANT COLLEGE MANAGEMENT	CHRISTOPHER F. D'ELIA	MARYLAND	62,000	0	52,416
PM-1 (10395) Title: SEA GRANT COLLEGE PROGRAM MANAGEMENT	CHRYSSOSTOMOS CHRYSSOSTO	MASSACHUSETTS INST. OF TECH.	170,187	0	230,929
M/O-1 (10432) Title: PROGRAM MANAGEMENT	JUDITH MCDOWELL	WOODS HOLE OCEANOGRAPHIC INST.	115,362	0	82,873
M/PM-1 (10832) Title: MICHIGAN SEA GRANT ADMINISTRATION	RUSSELL A. MOLL/WILLIAM	MICHIGAN	69,985	0	201,696
M/P-1 (10425) Title: PROGRAM MANAGEMENT	MICHAEL MCDONALD	MINNESOTA	19,282	0	12,000
A/SE-2 (11328) Title: MINNESOTA SEA GRANT OUTREACH/MANAGEMENT PROGRAM	MICHAEL MCDONALD	MINNESOTA	83,641	0	0
M/PA-1 (10156) Title: PROGRAM MANAGEMENT: ADMINISTRATION	JESUS B. TUPAZ	MISSISSIPPI/ALABAMA	59,194	0	29,081
M/PD-1 (11249) Title: PROGRAM OPERATIONS: PLANNING AND DEVELOPMENT	JESUS B. TUPAZ	MISSISSIPPI/ALABAMA	105,000	0	0
M/PD-1 (11249) Title: PROGRAM OPERATIONS: PLANNING AND DEVELOPMENT	JESUS B. TUPAZ	MISSISSIPPI/ALABAMA	147,694	0	70,853
M/M-1 (10584) Title: PROGRAM MANAGEMENT	MICHAEL P. WEINSTEIN	NEW JERSEY	154,734	0	86,931
P/PPM-1 (10325) Title: PROGRAM MANAGEMENT	ANNE E. MCELROY	NEW YORK	158,718	0	0

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-108

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
M/D/A-1 (10464) Title: PROGRAM MANAGEMENT AND DEVELOPMENT	B. J. COPELAND	NORTH CAROLINA	129,996	0	0
M/P-1 (10227) Title: ADMINISTRATION OF THE OHIO SEA GRANT COLLEGE PROGRAM	JEFFREY M. REUTTER	OHIO	34,282	0	122,056
M/P-6 (11406) Title: OHIO SEA GRANT ASSOCIATE DIRECTOR	JEFFREY M. REUTTER	OHIO	62,036	0	25,632
M/A-1 (10298) Title: PROGRAM MANAGEMENT	ROBERT E. MALOUF	OREGON	152,526	0	305,134
M/PM-9501 (10804) Title: PROGRAM MANAGEMENT	SCOTT NIXON	RHODE ISLAND	257,531	0	221,270
M/P/M-1 (10272) Title: PROGRAM MANAGEMENT	M. RICHARD DEVOE	SOUTH CAROLINA	95,539	0	32,354
M-1 (10606) Title: ADMINISTRATION AND PROGRAM DEVELOPMENT	ROBERT STICKNEY	TEXAS	224,803	0	129,300
M/AD-1 (10936) Title: VIRGINIA SEA GRANT COLLEGE - PROGRAM ADMINISTRATION	WILLIAM L. RICKARDS	VIRGINIA	224,866	0	60,000
M-1 (10757) Title: MANAGEMENT OF THE WASHINGTON SEA GRANT PROGRAM	LOUIE S. ECHOLS	WASHINGTON	164,400	0	144,475
M/SGA-2 (10143) Title: PROGRAM MANAGEMENT	ANDERS W. ANDREN/MARYLOU WISCONSIN		90,501	0	203,564
P-170-1-96 (11439) Title: PROGRAM ADMINISTRATION (RENEWAL)	MANUEL VALDES-PIZZINI	PUERTO RICO	72,698	0	92,849
P-170-1-97 (11446) Title: PROGRAM ADMINISTRATION: RESTRUCTURE PROGRAM COMMITTEES	MANUEL VALDES-PIZZINI	PUERTO RICO	10,000	0	0

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-109

<u>Project Number</u>	<u>PI</u>	<u>Program</u>	<u>Sea Grant</u>	<u>Pass Thru</u>	<u>Matching</u>
R/AN-97001	STEVEN OLSON	INDEPENDENT/OTHER	305,103	0	0
(11503) Title: PROGRAM MANAGEMENT					

Number of Projects: 35			Subtotal:	4,198,716	0 3,504,995

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-110

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
Project Category: 180 - PROGRAM DEVELOPMENT					
M/81-01 (10691)	R. K. DEARBORN	ALASKA	82,405	0	0
Title: PROGRAM DEVELOPMENT AND RAPID RESPONSE					
M/81-02 (11399)	R. K. DEARBORN	ALASKA	70,000	0	0
Title: REGIONAL PROGRAM DEVELOPMENT					
M/P-1 (10472)	JAMES SULLIVAN	CALIFORNIA	121,184	0	36,751
Title: PLANNING AND DEVELOPMENT					
R/NP-1 (10673)	JAMES SULLIVAN	CALIFORNIA	285,415	0	15,000
Title: RAPID RESPONSE CAPABILITY					
M/2 (10410)	D. HARTNEY	UNIV. OF SOUTHERN CALIFORNIA	119,498	0	7,948
Title: PROGRAM DEVELOPMENT					
M/PD-1 (10700)	EDWARD C. MONAHAN	CONNECTICUT	30,000	0	0
Title: PROGRAM DEVELOPMENT					
M/PD-4 (11253)	EDWARD C. MONAHAN	CONNECTICUT	70,000	0	0
Title: MULTI-PROGRAM AND REGIONAL INITIATIVES					
M/M-2 (10212)	CAROLYN A. THOROUGHGOOD	DELAWARE	120,133	0	0
Title: PROGRAM DEVELOPMENT					
M/PD-9 (10029)	JAMES C. CATO	FLORIDA	81,580	0	0
Title: COASTAL SCIENCE AND TECHNOLOGY INNOVATION WITH LIMITED FUNDS: THE FLORIDA SEA GRANT COLLEGE PROGRAM DEVELOPMENT PORTFOLIO					
M/AD-2 (11124)	MAC V. RAWSON, JR.	GEORGIA	141,795	0	65,867
Title: PROGRAM DEVELOPMENT					
M/PM-2 (10631)	CHARLES HELSLEY	HAWAII	152,738	0	13,167
Title: PROGRAM DEVELOPMENT					

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-111

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
M/P-01-97A (11386) Title: ILLINOIS-INDIANA SEA GRANT PROGRAM - PROGRAM DEVELOPMENT	PHILLIP E. POPE	ILLINOIS/INDIANA	70,000	0	57,446
M/A-2 (10829) Title: PROGRAM DEVELOPMENT	JACK R. VAN LOPIK	LOUISIANA	140,500	0	22,212
M/D-1 (10184) Title: PROGRAM DEVELOPMENT	ANN BUCKLIN	MAINE/NEW HAMPSHIRE	76,939	0	34,623
M/D-3 (11276) Title: PROGRAM DEVELOPMENT	ROBERT E. WALL	MAINE/NEW HAMPSHIRE	70,000	0	31,500
M-3 (10037) Title: PROGRAM DEVELOPMENT	CHRISTOPHER F. D'ELIA	MARYLAND	36,651	0	5,104
M-3A (11259) Title: REGIONAL PROGRAM DEVELOPMENT	CHRISTOPHER D'ELIA	MARYLAND	70,000	0	13,868
PM-2 (10396) Title: PROJECT DEVELOPMENT OPPORTUNITIES	CHRYSSOSTOMOS CHRYSSOSTO	MASSACHUSETTS INST. OF TECH.	155,000	0	86,726
M/O-5 (10435) Title: PROGRAM DEVELOPMENT	JUDITH E. MCDOWELL	WOODS HOLE OCEANOGRAPHIC INST.	70,000	0	0
M/PM-2 (11057) Title: MICHIGAN SEA GRANT COLLEGE PROGRAM DEVELOPMENT	RUSSELL A. MOLL/WILLAIN	MICHIGAN	100,000	0	0
M/P-2 (10424) Title: PROGRAM DEVELOPMENT	MICHAEL MCDONALD	MINNESOTA	23,793	0	63,307
M/M-2 (10583) Title: PROGRAM DEVELOPMENT	MICHAEL P. WEINSTEIN	NEW JERSEY	51,119	0	0
I/PIU-1 (10327) Title: PROGRAM DEVELOPMENT	ANNE E., MCELROY	NEW YORK	133,866	0	0

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-112

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
M/D/A-2 (10465)	B. J. COPELAND	NORTH CAROLINA	75,000	0	0
Title: PROJECT INITIATION AND RAPID RESPONSE CAPABILITY					
M/D-1 (10228)	JEFFREY M. REUTTER	OHIO	35,000	0	21,900
Title: PROGRAM DEVELOPMENT					
M/D-2 (11410)	JEFFREY M. REUTTER	OHIO	70,000	0	0
Title: OHIO SEA GRANT REGIONAL DEVELOPMENT					
M/A-2 (10299)	ROBERT E. MALOUF	OREGON	196,474	0	58,875
Title: PROGRAM DEVELOPMENT					
M/PD-9501 (10805)	SCOTT NIXON	RHODE ISLAND	131,572	0	9,119
Title: PROGRAM DEVELOPMENT					
M/P/M-2 (10274)	M. RICHARD DEVOE	SOUTH CAROLINA	126,924	0	15,000
Title: PROGRAM DEVELOPMENT					
M/PM-2 (10607)	ROBERT R. STICKNEY	TEXAS	75,700	0	30,000
Title: PROGRAM DEVELOPMENT					
M-3 (11330)	ROBERT R. STICKNEY	TEXAS	70,000	0	0
Title: REGIONAL INITIATIVES					
M/AD-2 (10937)	WILLIAM L. RICKARDS	VIRGINIA	121,616	0	0
Title: PROJECT DEVELOPMENT AND PROBLEM RESPONSE CAPABILITY					
M/AD-3 (11183)	GEORGE BURBANCK	VIRGINIA	50,000	0	25,000
Title: HAMPTON UNIVERSITY RESEARCH CAPABILITY ENHANCEMENT PROJECT: DEVELOPMENT OF A UNIFIED, LONG-TERM RESEARCH PROGRAM					
M-2 (10758)	LOUIE S. ECHOLS	WASHINGTON	176,300	0	61,862
Title: PROGRAM DEVELOPMENT					
M/SGA-1 (10142)	ANDERS W. ANDREN/MARYLOU WISCONSIN		131,514	0	65,540
Title: PROGRAM DEVELOPMENT					

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-113

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
M/SGA-3	ANDREN W. ANDERS	WISCONSIN	0	0	49,058
(11346) Title: SHIP TIME IN SUPPORT OF SEA GRANT RESEARCH PROJECTS					

P-180-1-96	MANUEL VALDES-PIZZINI	PUERTO RICO	14,255	0	15,000
(11447) Title: PROGRAM DEVELOPMENT (RENEWAL)					

P-180-1-97	MANUEL VALDES-PIZZINI	PUERTO RICO	10,395	0	0
(11448) Title: PROGRAM DEVELOPMENT: ADJUSTMENT TO 5 PERCENT					

P-180-2-97	MANUEL VALDES-PIZZINI	PUERTO RICO	70,000	0	0
(11449) Title: PROGRAM DEVELOPMENT: MULTIPLE PROGRAM AND REGIONAL INITIATIVES					

Number of Projects: 39			Subtotal:	3,627,366	0 804,873

SEA GRANT 1997 - PROJECT LISTING BY CATEGORY

4-114

Project Number	PI	Program	Sea Grant	Pass Thru	Matching
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Project Category: 190 - OTHER

A/S-3	JAMES SULLIVAN	CALIFORNIA	27,390	0	4,274
(10470) Title: INTERNATIONAL TECHNOLOGY AND INFORMATION TRANSFER PROGRAM					

R/ME-16	KUO-CHUIN WONG	DELAWARE	24,650	0	38,949
(10207) Title: THE TRANSVERSE VARIABILITY IN A COASTAL PLAIN ESTUARY					

Number of Projects:	2	Subtotal:	52,040	0	43,223
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Total number of projects:	811	Grand Total:	52,097,594	10,293,061	31,679,386

Note 1 - ✓ : Project for program development. Not included in the subtotal/total.

Note 2 - Some identical projects are listed twice due to different funding source and amount.

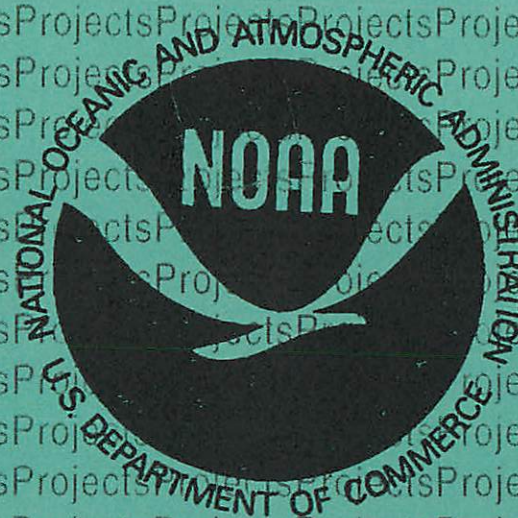
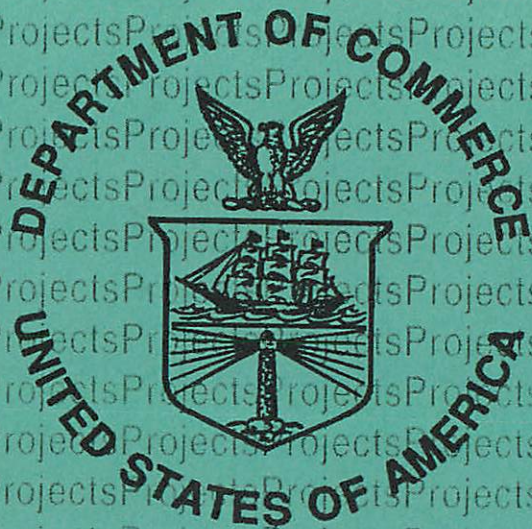
**Section Five:
Funding Distribution by
NOAA Strategic Plan**

DISTRIBUTION OF SEA GRANT PROGRAM FUNDING BY NOAA STRATEGIC PLAN GOAL

	<i>BUILD SUSTAINABLE FISHERIES (BSF)</i>		<i>SUSTAIN HEALTHY COASTS (SHC)</i>		<i>NOT ALLOCATED - MANAGEMENT, OUTREACH, OTHER</i>		5-1	
	<i>FEDERAL</i>	<i>MATCHING</i>	<i>FEDERAL</i>	<i>MATCHING</i>	<i>FEDERAL</i>	<i>MATCHING</i>	<i>%BSF</i>	<i>%SHC</i>
ALASKA	\$824,520	\$46,761	\$162,755	\$44,419	\$828,125	\$1,035,838	84	16
CALIFORNIA	\$438,036	\$253,968	\$2,281,182	\$1,160,781	\$1,700,335	\$736,354	16	84
CONNECTICUT	\$136,133	\$76,797	\$219,637	\$109,465	\$514,127	\$268,993	38	62
DELAWARE	\$221,911	\$275,513	\$610,717	\$423,212	\$628,430	\$555,119	27	73
FLORIDA	\$281,388	\$177,871	\$941,560	\$352,320	\$1,110,330	\$491,085	23	77
GEORGIA	\$134,470	\$112,250	\$466,026	\$313,243	\$713,934	\$317,509	22	78
HAWAII	\$467,261	\$203,815	\$654,687	\$682,435	\$904,052	\$221,754	42	58
ILLINOIS/INDIANA	\$0	\$0	\$863,089	\$451,261	\$396,384	\$244,927	0	100
INDEPENDENT/OTHER	\$1,170,451	\$133,380	\$1,042,223	\$172,960	\$1,255,103	\$0	53	47
LOUISIANA	\$541,053	\$256,785	\$939,405	\$360,732	\$472,266	\$629,149	37	63
MAINE/NEW HAMPSHIRE	\$851,503	\$313,020	\$389,097	\$88,914	\$1,051,489	\$650,682	69	31
MARYLAND	\$770,714	\$365,325	\$3,444,167	\$457,081	\$684,702	\$761,873	18	82
MASSACHUSETTS	\$201,023	\$172,761	\$1,238,676	\$1,099,020	\$759,625	\$528,445	14	86
MICHIGAN	\$210,633	\$145,705	\$819,810	\$537,560	\$763,029	\$493,898	20	80
MINNESOTA	\$18,376	\$37,192	\$457,952	\$228,777	\$577,580	\$294,993	4	96
MISSISSIPPI/ALABAMA	\$468,898	\$134,222	\$732,652	\$571,429	\$597,633	\$300,839	39	61
NEW JERSEY	\$177,162	\$113,283	\$471,973	\$302,282	\$455,573	\$318,205	27	73
NEW YORK	\$453,746	\$287,060	\$1,563,801	\$647,085	\$1,065,489	\$393,878	22	78
NORTH CAROLINA	\$360,254	\$238,799	\$703,684	\$124,914	\$858,730	\$533,756	34	66
OHIO	\$60,663	\$61,405	\$594,751	\$504,450	\$563,641	\$354,264	9	91

	<i>BUILD SUSTAINABLE FISHERIES (BSF)</i>		<i>SUSTAIN HEALTHY COASTS (SHC)</i>		<i>NOT ALLOCATED - MANAGEMENT, OUTREACH, OTHER</i>			
	<i>FEDERAL</i>	<i>MATCHING</i>	<i>FEDERAL</i>	<i>MATCHING</i>	<i>FEDERAL</i>	<i>MATCHING</i>	<i>%BSF</i>	<i>%SHC</i>
OREGON	\$329,113	\$190,276	\$407,139	\$127,904	\$1,314,001	\$1,198,597	45	55
PUERTO RICO	\$134,939	\$124,865	\$144,962	\$68,006	\$555,794	\$423,656	48	52
RHODE ISLAND	\$592,047	\$203,095	\$1,052,695	\$448,043	\$1,201,742	\$482,648	36	64
SOUTH CAROLINA	\$471,557	\$289,468	\$1,972,547	\$530,666	\$632,793	\$251,225	19	81
SOUTHERN CALIFORNIA	\$0	\$0	\$443,717	\$288,683	\$439,148	\$176,100	0	100
TEXAS	\$316,588	\$130,631	\$795,492	\$360,549	\$987,982	\$499,541	28	72
VIRGINIA	\$672,504	\$418,112	\$472,894	\$31,153	\$972,250	\$500,262	59	41
WASHINGTON	\$1,376,333	\$252,986	\$1,105,253	\$594,975	\$1,367,200	\$671,654	55	45
WISCONSIN	\$315,776	\$244,198	\$879,573	\$485,684	\$681,351	\$870,118	26	74
WOOD HOLE OCEANOGRAPHIC INST	\$342,401	\$136,495	\$519,534	\$169,068	\$453,950	\$167,727	40	60
TOTAL	\$12,339,453	\$5,396,038	\$26,391,650	\$11,737,071	\$24,506,788	\$14,373,089	31.86%	68.14%

NOTE: The NOAA goal of Build Sustainable Fisheries includes these Sea Grant Strategic Plan categories: Seafood Production (31-54) and Fishing Industries (61). The NOAA goal of Sustain Healthy Coasts includes these Sea Grant Strategic Plan Categories: Advanced Technology for Commercial Products and Processes (11-23), Coastal Economic Development (62-84), Coastal Ecosystem Health (91-115), Public Safety (121-134), and Education (141-143). The remaining categories -- Marine Advisory Service (151-152), Communications (161, 162), Program Management (170-180), and Other (190) contribute to both NOAA goals and were not allocated further.



Marine Fisheries Service
National Sea Grant Program
NOAA
U.S. Department of Commerce
1999-2000