

Projects '98

May 2000

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 '98 lists all projects supported by the National Sea Grant College Program during Fiscal Year 1998 (October 1, 1997 – September 30, 1998). 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 1998 was 794. Almost all of these projects were conducted through the core of 29 Sea Grant programs that 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 and outreach 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. Clinton Winant, Interim Director
*California Sea Grant College
System
University of California
9500 Gilman Drive
La Jolla, CA 92093
858/534-4440

Dr. Linda Duguay, Director
+University of Southern
California Sea Grant
3616 Trousdale Parkway-AHF 209F
Los Angeles, CA 90089
213/821-1335

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
P.O. Box 110400
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
706/542-5954

HAWAII

Dr. Gordon Grau, Director
*Hawaii Sea Grant
University of Hawaii
2525 Correa Road, Room 238
Honolulu, HI 96822
808/956-7031

ILLINOIS-INDIANA

Dr. Phillip Pope, Director
*Illinois-Indiana Sea Grant
Purdue University
1200 Forest Products Building
West Lafayette, IN 47907-1200
765/494-3593

LOUISIANA

Dr. Jack Van Lopik, Director
*Louisiana Sea Grant
Louisiana State University
Sea Grant Building
Baton Rouge, LA 70803-7507
225/388-6710

MAINE

Dr. Ian Davison, Director
*ME-NH Sea Grant
University of Maine
515 Coburn Hall
Orono, ME 04469-0114
207/581-1435

MARYLAND

Dr. Jonathan Kramer, 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
193 Oyster Pond Road, M.S. #2
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
734/763-1437

MINNESOTA

Dr. Carl Richards, 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
228/875-9368

NEW HAMPSHIRE

Dr. Ann Bucklin, Director
*ME-NH Sea Grant
University of New Hampshire
Kingman Farm
Durham, NH 03824
603/862-0122

NEW JERSEY

Dr. Michael Weinstein, Director
*New Jersey Sea Grant
NJ Marine Sciences Consortium
Building No. 22
Ft. Hancock, NJ 07732
732/872-1300 ext. 21

NEW YORK

Dr. Jack Mattice, Director
*New York Sea Grant Institute
State University of New York
121 Discovery Hall
Stony Brook, NY 11794-5001
631/632-6905

NORTH CAROLINA

Dr. Ronald 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
541/737-2714

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. Ames Colt, Interim 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 Consortium
287 Meeting Street
Charleston, SC 29401
843/727-2078

TEXAS

Dr. Robert Stickney, Director
*Texas Sea Grant
Texas A&M University
1716 Briarcrest Drive, Suite 702
Bryan, TX 77802
979/845-3854

VIRGINIA

Dr. William Rickards, Director
*Virginia Sea Grant
Virginia Graduate Marine
Science Consortium
170 Rugby Road
P.O. Box 400146
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
Goodnight Hall, 2nd Floor
1975 Willow Drive
Madison, WI 53705
608/262-0905

Contents

Section One to Three: Project Funding Summaries

Project Funding Summary by Program	1-1
Project Funding Summary by Strategic Plan Category	2-1
Project Funding Summary by Category and Program	3-1

Section Four: Project Listing by Category

Commercial Biotechnology	
Molecular Genetics	4-1
Natural Products: Chemistry and Biological Activity	4-2
Bioprocessing, Bioreaction, Cell and Tissue Culture	4-6
Environmental Technology	
Enhancement of Environmental Monitoring and Assessment	4-8
Pollution Control and Prevention	4-11
Remediation	4-12
Revitalize the Nation's Commercial Fisheries	
Ecosystem-Based Management	4-13
Anticipating Social and Economic Impacts	4-27
Minimizing Bycatch	4-30
Enhancing Wild Stocks Through Aquaculture	4-31
Develop Sustainable U.S. Aquaculture	
Administration and Coordination	4-32
Developing and Improving Grow-Out Systems	4-34
Improving Husbandry	4-38
Enhancing Aquaculture Through Biotechnology	4-45
Enhance Competitiveness Through Advances in Seafood Technology	
Product Quality and Safety	4-50
Processing Technology and Practices	4-52
Waste Management and Byproduct Recovery	4-54
Coastal Business Development	
Coastal Recreation Business	4-55
Marine Trades Industry	4-56
Coastal Community Development	
Coastal Tourism Development	4-58
Communities in Transition	4-59
Coastal and Waterfront Redevelopment	4-60
Planning and Decision-Making Information	4-61
Revitalizing Marine Infrastructure	
Structure Performance Assessments	4-62
Rehabilitation, Repair, and Recycling Procedures	4-63

Coastal and Great Lakes Water Quality

Toxics	4-64
Biological Contaminants	4-71
Nutrients	4-72
Sedimentation	4-77
Biotoxins/Harmful Algal Blooms	4-78
Nonpoint Source Pollution	4-84
Chemical and Oil Spills	4-85

Coastal and Great Lakes Habitats

Habitat Structure and Function	4-86
Habitat Restoration	4-90
Aquatic Nuisance Species	4-93
Cumulative Impacts	4-100

Sustainable Development

Socioeconomic Dimensions of Environmental Change	4-101
Coastal Management Policy Tools	4-102
Multiple Use Management and Conflict Resolution	4-104

Coastal and Natural Hazards

Severe Storms	4-105
Earthquakes and Tsunamis	4-107
Coastal Planning and Building Construction Techniques	4-108
Shoreline Processes and Erosion	4-109

Safety at Sea

Vessel Stability Research	4-113
Recreational and Commercial Diving	4-114

Education

Education: Pre-College	4-115
Education: University	4-117
Education: Informal	4-125

Sea Grant Extension Program

Marine Advisory Service: Core	4-126
Marine Advisory Service Special Projects	4-132

Communications

Communications: Core	4-133
Communications: Special Projects	4-138

Program Administration

Program Development

Section Five: Funding Distribution by NOAA Strategic Plan

Table	5-1
-------	-----

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

1998 PROJECT FUNDING SUMMARY BY PROGRAM

1-1

PROGRAM	NUMBER OF PROJECTS	SEA GRANT	PASS THRU	*FEDERAL	MATCHING	**TOTAL
ALASKA	19	1,407,081	388,900	1,795,981	884,819	2,680,800
CALIFORNIA	53	4,499,075	183,833	4,682,908	2,369,958	7,052,866
CONNECTICUT	15	838,600	36,000	874,600	494,166	1,368,766
DELAWARE	20	1,241,568	36,000	1,277,568	1,020,127	2,297,695
FLORIDA	31	2,101,530	285,649	2,387,179	1,082,749	3,469,928
GEORGIA	18	1,302,865	178,000	1,480,865	779,581	2,260,446
HAWAII	38	2,027,284	274,023	2,301,307	1,261,580	3,562,887
ILLINOIS/INDIANA	19	948,525	0	948,525	684,117	1,632,642
INDEPENDENT/OTHER	36	2,311,640	746,397	3,058,037	562,340	3,620,377
LOUISIANA	44	2,584,779	268,615	2,853,394	1,747,424	4,600,818
MAINE/NEW HAMPSHIRE	34	2,054,146	2,548,963	4,603,109	1,103,018	5,706,127
MARYLAND	38	2,083,832	1,990,668	4,074,500	1,131,633	5,206,133
MASSACHUSETTS	22	1,915,615	0	1,915,615	1,164,545	3,080,160
MICHIGAN	10	1,218,789	0	1,218,789	707,936	1,926,725
MINNESOTA	16	960,137	0	960,137	498,040	1,458,177
MISSISSIPPI/ALABAMA	21	1,218,765	364,411	1,583,176	763,282	2,346,458
NEW JERSEY	16	988,258	13,501	1,001,759	799,460	1,801,219
NEW YORK	30	2,435,305	529,928	2,965,233	1,379,976	4,345,209
NORTH CAROLINA	27	1,671,661	72,000	1,743,661	960,743	2,704,404

1998 PROJECT FUNDING SUMMARY BY PROGRAM

1-2

PROGRAM	NUMBER OF PROJECTS	SEA GRANT	PASS THRU	*FEDERAL	MATCHING	**TOTAL
OHIO	22	1,145,563	56,000	1,201,563	668,926	1,870,489
OREGON	28	2,558,532	76,000	2,634,532	1,657,785	4,292,317
PUERTO RICO	17	873,000	36,000	909,000	770,325	1,679,325
RHODE ISLAND	23	1,990,149	232,267	2,222,416	995,076	3,217,492
SOUTH CAROLINA	30	1,759,519	1,587,500	3,347,019	1,186,334	4,533,353
SOUTHERN CALIFORNIA	14	752,000	36,000	788,000	413,053	1,201,053
TEXAS	24	1,784,186	152,742	1,936,928	955,832	2,892,760
VIRGINIA	34	1,876,710	461,018	2,337,728	957,462	3,295,190
WASHINGTON	36	2,835,314	1,409,736	4,245,050	1,556,264	5,801,314
WISCONSIN	35	2,340,483	0	2,340,483	1,400,000	3,740,483
WOOD HOLE OCEANOGRAPHIC INST.	24	1,264,188	75,714	1,339,902	777,739	2,117,641
Grand Total:	794	52,989,099	12,039,865	65,028,964	30,734,290	95,763,254

* : Sea Grant + PassThru

** : Federal + Matching

1998 SEA GRANT PROJECT FUNDING SUMMARY BY STRATEGIC PLAN CATEGORY

2-1

STRATEGIC PLAN	PROJECT NUMBER	SEA GRANT	PASS THROUGH	MATCHING	TOTAL
I. ECONOMIC LEADERSHIP					
<u>A. Advanced Technology for Commercial Products and Processes</u>					
10 - COMMERCIAL BIOTECHNOLOGY					
11 - MOLECULAR GENETICS	3	279,529	0	138,096	417,625
12 - NATURAL PRODUCTS: CHEMISTRY AND BIOLOGICAL ACTIVITY	26	1,761,834	0	1,128,576	2,890,410
13 - BIOPROCESSING, BIOREACTION, CELL AND TISSUE CULTURE	9	716,959	0	457,420	1,174,379
Subtotal:	38	2,758,322	0	1,724,092	4,482,414
20 - ENVIRONMENTAL TECHNOLOGY					
21 - ENHANCEMENT OF ENVIRONMENTAL MONITORING AND ASSESSMENT	18	712,527	290,074	481,309	1,483,910
22 - POLLUTION CONTROL AND PREVENTION	3	127,871	0	91,772	219,643
23 - REMEDIATION	6	415,689	0	227,417	643,106
Subtotal:	27	1,256,087	290,074	800,498	2,346,659
<u>B. Seafood Production</u>					
30 - REVITALIZE THE NATION'S COMMERCIAL FISHERIES					
31 - ECOSYSTEM-BASED MANAGEMENT	89	3,816,734	1,467,316	2,334,385	7,618,435
32 - ANTICIPATING SOCIAL AND ECONOMIC IMPACTS	17	845,337	0	500,439	1,345,776
33 - MINIMIZING BYCATCH	3	89,100	438,900	59,527	587,527
34 - ENHANCING WILD STOCKS THROUGH AQUACULTURE	4	178,023	0	87,581	265,604
Subtotal:	113	4,929,194	1,906,216	2,981,932	9,817,342

1998 SEA GRANT PROJECT FUNDING SUMMARY BY STRATEGIC PLAN CATEGORY

2-2

STRATEGIC PLAN	PROJECT NUMBER	SEA GRANT	PASS THROUGH	MATCHING	TOTAL
40 - DEVELOP SUSTAINABLE U.S. AQUACULTURE					
41 - ADMINISTRATION AND COORDINATION	8	329,843	274,023	291,269	895,135
42 - DEVELOPING AND IMPROVING GROW-OUT SYSTEMS	23	1,243,936	1,915,000	378,999	3,537,935
43 - IMPROVING HUSBANDRY	40	2,744,049	330,000	1,279,855	4,353,904
44 - ENHANCING AQUACULTURE THROUGH BIOTECHNOLOGY	29	1,520,798	0	888,843	2,409,641
Subtotal:	100	5,838,626	2,519,023	2,838,966	11,196,615
50 - ENHANCE COMPETITIVENESS THROUGH ADVANCES IN SEAFOOD TECHNOLOGY					
51 - PRODUCT QUALITY AND SAFETY	11	598,974	0	195,893	794,867
52 - PROCESSING TECHNOLOGY AND PRACTICES	7	333,383	0	200,451	533,834
53 - WASTE MANAGEMENT AND BYPRODUCT RECOVERY	4	202,386	0	45,100	247,486
Subtotal:	22	1,134,743	0	441,444	1,576,187
<u>C. Coastal Economic Development</u>					
60 - COASTAL BUSINESS DEVELOPMENT					
62 - COASTAL RECREATION BUSINESSES	2	0	54,999	0	54,999
63 - MARINE TRADES INDUSTRY	7	285,289	0	149,632	434,921
Subtotal:	9	285,289	54,999	149,632	489,920

1998 SEA GRANT PROJECT FUNDING SUMMARY BY STRATEGIC PLAN CATEGORY

2-3

STRATEGIC PLAN	PROJECT NUMBER	SEA GRANT	PASS THROUGH	MATCHING	TOTAL
70 - COASTAL COMMUNITY DEVELOPMENT					
71 - COASTAL TOURISM DEVELOPMENT	3	152,736	0	47,726	200,462
72 - COMMUNITIES IN TRANSITION	1	10,000	0	10,800	20,800
73 - COASTAL AND WATERFRONT REDEVELOPMENT	2	67,853	0	19,749	87,602
75 - PLANNING AND DECISION-MAKING INFORMATION	3	138,903	0	193,297	332,200
Subtotal:	9	369,492	0	271,572	641,064
80 - REVITALIZING MARINE INFRASTRUCTURE					
83 - STRUCTURE PERFORMANCE ASSESSMENTS	1	47,410	0	23,832	71,242
84 - REHABILITATION, REPAIR, AND RECYCLING PROCEDURES	3	118,778	0	65,446	184,224
Subtotal:	4	166,188	0	89,278	255,466
II. COASTAL ECOSYSTEM HEALTH AND PUBLIC SAFETY					
<u>A. Coastal Ecosystem Health</u>					
90 - COASTAL AND GREAT LAKES WATER QUALITY					
91 - TOXICS	40	1,679,474	663,656	1,092,370	3,435,500
92 - BIOLOGICAL CONTAMINANTS	5	251,578	0	148,277	399,855
93 - NUTRIENTS	27	1,379,048	231,131	813,262	2,423,441
94 - SEDIMENTATION	1	0	0	32,000	32,000
95 - BIOTOXINS/HARMFUL ALGAL BLOOMS	37	984,387	1,313,361	590,651	2,888,399
96 - NONPOINT SOURCE POLLUTION	6	246,790	0	179,471	426,261

1998 SEA GRANT PROJECT FUNDING SUMMARY BY STRATEGIC PLAN CATEGORY

2-4

STRATEGIC PLAN	PROJECT NUMBER	SEA GRANT	PASS THROUGH	MATCHING	TOTAL
97 - CHEMICAL AND OIL SPILLS	1	15,000	0	15,000	30,000
Subtotal:	117	4,556,277	2,208,148	2,871,031	9,635,456
100 - COASTAL AND GREAT LAKES HABITATS					
101 - HABITAT STRUCTURE AND FUNCTION	22	632,170	1,155,131	658,122	2,445,423
102 - HABITAT RESTORATION	15	527,826	125,244	554,758	1,207,828
103 - AQUATIC NUISANCE SPECIES	37	1,972,012	685,030	1,106,821	3,763,863
104 - CUMULATIVE IMPACTS	2	0	1,400,000	27,000	1,427,000
Subtotal:	76	3,132,008	3,365,405	2,346,701	8,844,114
110 - SUSTAINABLE DEVELOPMENT					
111 - SOCIOECONOMIC DIMENSIONS OF ENVIRONMENTAL CHANG	3	45,007	175,000	29,131	249,138
112 - COASTAL MANAGEMENT POLICY TOOLS	10	287,613	116,000	344,127	747,740
113 - MULTIPLE USE MANAGEMENT AND CONFLICT RESOLUTION	4	139,181	0	127,884	267,065
Subtotal:	17	471,801	291,000	501,142	1,263,943
<u>B. Public Safety</u>					
120 - COASTAL AND NATURAL HAZARDS					
121 - SEVERE STORMS	9	213,132	0	80,035	293,167
122 - EARTHQUAKES AND TSUNAMIS	1	51,093	0	13,173	64,266
123 - COASTAL PLANNING AND BUILDING CONSTRUCTION TECHNI	4	209,726	0	118,552	328,278

1998 SEA GRANT PROJECT FUNDING SUMMARY BY STRATEGIC PLAN

2-5

STRATEGIC PLAN	PROJECT NUMBER	SEA GRANT	PASS THROUGH	MATCHING	TOTAL
124 - SHORELINE PROCESSES AND EROSION	23	643,762	369,500	668,866	1,682,128
Subtotal:	37	1,117,713	369,500	880,626	2,367,839
130 - SAFETY AT SEA					
131 - VESSEL STABILITY RESEARCH	1	38,000	0	0	38,000
134 - RECREATIONAL AND COMMERCIAL DIVING	1	37,993	0	16,220	54,213
Subtotal:	2	75,993	0	16,220	92,213
III. EDUCATION AND HUMAN RESOURCES					
<u>A. Education</u>					
140 - EDUCATION					
141 - EDUCATION: PRE-COLLEGE	10	302,651	59,500	194,632	556,783
142 - EDUCATION:UNIVERSITY	50	2,675,884	876,000	525,912	4,077,796
143 - EDUCATION:INFORMAL	2	197,940	0	133,782	331,722
Subtotal:	62	3,176,475	935,500	854,326	4,966,301
<u>B. Marine Advisory Service</u>					
150 - SEA GRANT EXTENSION PROGRAM					
151 - MARINE ADVISORY SERVICE: CORE	39	10,365,224	0	7,385,047	17,750,271
152 - MARINE ADVISORY SERVICE: SPECIAL PROJECTS	3	70,508	100,000	45,101	215,609
Subtotal:	42	10,435,732	100,000	7,430,148	17,965,880

1998 SEA GRANT PROJECT FUNDING SUMMARY BY STRATEGIC PLAN

2-6

STRATEGIC PLAN	PROJECT NUMBER	SEA GRANT	PASS THROUGH	MATCHING	TOTAL
160 - COMMUNICATIONS					
161 - COMMUNICATIONS: CORE	29	4,240,390	0	2,155,696	6,396,086
162 - COMMUNICATIONS: SPECIAL PROJECTS	10	578,412	0	93,571	671,983
Subtotal:	39	4,818,802	0	2,249,267	7,068,069
IV. PROGRAM MANAGEMENT					
<u>A. Program Administration</u>					
170 - PROGRAM ADMINISTRATION					
170 - PROGRAM ADMINISTRATION	34	4,632,494	0	3,525,723	8,158,217
Subtotal:	34	4,632,494	0	3,525,723	8,158,217
<u>B. Program Development</u>					
180 - PROGRAM DEVELOPMENT					
180 - PROGRAM DEVELOPMENT	46	3,833,863	0	761,692	4,595,555
Subtotal:	46	3,833,863	0	761,692	4,595,555
Grand Total:	<u>794</u>	<u>52,989,099</u>	<u>12,039,865</u>	<u>30,734,290</u>	<u>95,763,254</u>

1998 PROJECT FUNDING SUMMARY BY CATEGORY AND PROGRAM

3-1

PROGRAM	NUMBER OF PROJECTS	SEA GRANT	PASS THRU	FEDERAL	MATCHING	TOTAL
CATEGORY: 10 - COMMERCIAL BIOTECHNOLOGY						
CALIFORNIA	7	532,366	0	532,366	344,833	877,199
FLORIDA	5	341,725	0	341,725	224,736	566,461
GEORGIA	1	95,865	0	95,865	44,151	140,016
HAWAII	5	229,811	0	229,811	138,739	368,550
INDEPENDENT/OTHER	1	73,267	0	73,267	36,634	109,901
LOUISIANA	1	172,612	0	172,612	94,125	266,737
MARYLAND	1	85,357	0	85,357	42,271	127,628
MASSACHUSETTS	1	75,000	0	75,000	37,500	112,500
MISSISSIPPI/ALABAMA	2	94,844	0	94,844	87,097	181,941
NEW JERSEY	1	59,657	0	59,657	45,557	105,214
NEW YORK	2	181,100	0	181,100	102,530	283,630
OREGON	1	100,000	0	100,000	49,938	149,938
SOUTH CAROLINA	1	39,990	0	39,990	18,395	58,385
WASHINGTON	6	435,160	0	435,160	350,908	786,068
WOOD HOLE OCEANOGRAPHIC INST.	3	241,568	0	241,568	108,678	348,246
Grand Total:	38	2,758,322	0	2,758,322	1,724,092	4,482,414

1998 PROJECT FUNDING SUMMARY BY CATEGORY AND PROGRAM

3-2

PROGRAM	NUMBER OF PROJECTS	SEA GRANT	PASS THRU	FEDERAL	MATCHING	TOTAL
CATEGORY: 20 - ENVIRONMENTAL TECHNOLOGY						
CALIFORNIA	1	77,726	0	77,726	65,528	143,254
DELAWARE	2	49,924	0	49,924	56,766	106,690
FLORIDA	1	0	20,663	20,663	0	20,663
HAWAII	3	92,739	0	92,739	119,047	211,786
ILLINOIS/INDIANA	1	30,016	0	30,016	21,591	51,607
INDEPENDENT/OTHER	3	242,013	125,000	367,013	16,491	383,504
LOUISIANA	3	172,148	0	172,148	78,249	250,397
MARYLAND	2	53,212	20,000	73,212	55,641	128,853
MASSACHUSETTS	1	75,000	0	75,000	62,643	137,643
MISSISSIPPI/ALABAMA	2	33,399	34,411	67,810	42,710	110,520
OHIO	1	97,139	0	97,139	62,648	159,787
RHODE ISLAND	1	0	90,000	90,000	0	90,000
SOUTH CAROLINA	3	158,247	0	158,247	82,653	240,900
WASHINGTON	3	174,524	0	174,524	136,531	311,055
Grand Total:	27	1,256,087	290,074	1,546,161	800,498	2,346,659

1998 PROJECT FUNDING SUMMARY BY CATEGORY AND PROGRAM

3-3

PROGRAM	NUMBER OF PROJECTS	SEA GRANT	PASS THRU	FEDERAL	MATCHING	TOTAL
CATEGORY: 30 - REVITALIZE THE NATION'S COMMERCIAL FISHERIES						
ALASKA	10	376,798	388,900	765,698	93,253	858,951
CALIFORNIA	9	307,970	11,000	318,970	233,578	552,548
DELAWARE	5	97,305	0	97,305	182,474	279,779
FLORIDA	8	404,629	29,987	434,616	249,080	683,696
GEORGIA	5	178,418	142,000	320,418	104,298	424,714
HAWAII	5	118,849	0	118,849	151,725	270,574
ILLINOIS/INDIANA	1	38,891	0	38,891	20,899	59,790
INDEPENDENT/OTHER	1	9,855	0	9,855	0	9,855
LOUISIANA	1	57,143	0	57,143	28,050	85,193
MAINE/NEW HAMPSHIRE	3	181,000	0	181,000	78,733	259,733
MICHIGAN	3	363,955	0	363,955	196,721	560,676
MINNESOTA	2	20,310	0	20,310	50,162	70,472
MISSISSIPPI/ALABAMA	2	97,188	0	97,188	62,693	159,881
NEW JERSEY	2	43,130	13,501	56,631	52,909	109,540
NEW YORK	4	302,413	0	302,413	183,477	485,890
NORTH CAROLINA	5	137,366	0	137,366	44,640	182,006
OHIO	2	45,031	0	45,031	38,920	83,951
OREGON	5	302,367	0	302,367	103,134	405,501
PUERTO RICO	3	103,234	0	103,234	71,318	174,552
RHODE ISLAND	6	355,762	111,267	467,029	248,017	715,046
SOUTH CAROLINA	1	76,000	0	76,000	32,400	108,400
TEXAS	5	242,510	59,560	302,070	108,976	411,046
VIRGINIA	6	282,544	0	282,544	161,751	444,295
WASHINGTON	9	320,816	1,150,001	1,470,817	210,847	1,681,664
WISCONSIN	7	329,526	0	329,526	197,247	526,773
WOOD HOLE OCEANOGRAPHIC INST.	3	136,184	0	136,184	76,632	212,816
Grand Total:	113	4,929,194	1,906,216	6,835,410	2,981,932	9,817,342

1998 PROJECT FUNDING SUMMARY BY CATEGORY AND PROGRAM

3-4

PROGRAM	NUMBER OF PROJECTS	SEA GRANT	PASS THRU	FEDERAL	MATCHING	TOTAL
CATEGORY: 40 - DEVELOP SUSTAINABLE U.S. AQUACULTURE						
CALIFORNIA	5	244,693	0	244,693	188,948	433,641
CONNECTICUT	2	11,200	0	11,200	0	11,200
DELAWARE	1	82,568	0	82,568	0	82,568
FLORIDA	2	45,385	0	45,385	28,205	73,590
HAWAII	6	171,644	274,023	445,667	63,549	509,216
ILLINOIS/INDIANA	1	79,525	0	79,525	31,862	111,387
INDEPENDENT/OTHER	10	862,684	0	862,684	311,475	1,174,159
LOUISIANA	10	714,149	0	714,149	322,019	1,036,168
MAINE/NEW HAMPSHIRE	10	470,712	1,915,000	2,385,712	264,501	2,650,213
MARYLAND	11	784,832	0	784,832	414,792	1,199,624
MASSACHUSETTS	4	230,300	0	230,300	121,400	351,700
MINNESOTA	1	74,137	0	74,137	39,328	113,465
MISSISSIPPI/ALABAMA	3	81,107	330,000	411,107	49,202	460,309
NEW JERSEY	1	93,258	0	93,258	43,293	136,551
NEW YORK	1	55,074	0	55,074	51,554	106,628
NORTH CAROLINA	5	277,915	0	277,915	121,315	399,230
OHIO	2	14,000	0	14,000	0	14,000
OREGON	2	173,577	0	173,577	68,359	241,936
PUERTO RICO	1	30,000	0	30,000	35,000	65,000
RHODE ISLAND	1	80,000	0	80,000	47,425	127,425
SOUTH CAROLINA	4	293,499	0	293,499	170,786	464,285
TEXAS	2	114,331	0	114,331	69,753	184,084
VIRGINIA	9	490,629	0	490,629	245,449	736,078
WASHINGTON	1	27,700	0	27,700	18,219	45,919
WISCONSIN	3	214,625	0	214,625	70,909	285,534
WOOD HOLE OCEANOGRAPHIC INST.	2	121,082	0	121,082	61,623	182,705
Grand Total:	100	5,838,626	2,519,023	8,357,649	2,838,966	11,196,615

1998 PROJECT FUNDING SUMMARY BY CATEGORY AND PROGRAM

3-5

PROGRAM	NUMBER OF PROJECTS	SEA GRANT	PASS THRU	FEDERAL	MATCHING	TOTAL
CATEGORY: 50 - ENHANCE COMPETITIVENESS THROUGH ADVANCES IN SEAFOOD TECHNOLOGY						
ALASKA	1	72,215	0	72,215	0	72,215
FLORIDA	1	99,978	0	99,978	0	99,978
INDEPENDENT/OTHER	5	190,297	0	190,297	0	190,297
LOUISIANA	4	248,430	0	248,430	121,568	369,998
MASSACHUSETTS	1	48,000	0	48,000	40,018	88,018
MISSISSIPPI/ALABAMA	1	37,808	0	37,808	20,088	57,896
NEW YORK	2	96,050	0	96,050	63,567	159,617
NORTH CAROLINA	2	81,099	0	81,099	129,433	210,532
OREGON	4	217,339	0	217,339	59,407	276,746
WISCONSIN	1	43,527	0	43,527	7,363	50,890
Grand Total:	22	1,134,743	0	1,134,743	441,444	1,576,187

1998 PROJECT FUNDING SUMMARY BY CATEGORY AND PROGRAM

3-6

PROGRAM	NUMBER OF PROJECTS	SEA GRANT	PASS THRU	FEDERAL	MATCHING	TOTAL
CATEGORY: 60 - COASTAL BUSINESS DEVELOPMENT						
FLORIDA	3	9,552	54,999	64,551	4,916	69,467
LOUISIANA	1	13,267	0	13,267	10,858	24,125
MASSACHUSETTS	1	200,000	0	200,000	100,000	300,000
MICHIGAN	1	13,789	0	13,789	8,799	22,588
OREGON	1	20,655	0	20,655	10,752	31,407
RHODE ISLAND	1	1,950	0	1,950	1,182	3,132
TEXAS	1	26,076	0	26,076	13,125	39,201
Grand Total:	9	285,289	54,999	340,288	149,632	489,920

1998 PROJECT FUNDING SUMMARY BY CATEGORY AND PROGRAM

3-7

PROGRAM	NUMBER OF PROJECTS	SEA GRANT	PASS THRU	FEDERAL	MATCHING	TOTAL
CATEGORY: 70 - COASTAL COMMUNITY DEVELOPMENT						
INDEPENDENT/OTHER	1	9,749	0	9,749	0	9,749
LOUISIANA	1	50,001	0	50,001	42,092	92,093
MARYLAND	1	90,480	0	90,480	11,544	102,024
MISSISSIPPI/ALABAMA	1	73,849	0	73,849	135,024	208,873
NORTH CAROLINA	1	15,053	0	15,053	16,181	31,234
OHIO	1	48,836	0	48,836	24,835	73,671
PUERTO RICO	1	10,000	0	10,000	10,800	20,800
WASHINGTON	1	58,104	0	58,104	19,749	77,853
WISCONSIN	1	13,420	0	13,420	11,347	24,767
Grand Total:	9	369,492	0	369,492	271,572	641,064

1998 PROJECT FUNDING SUMMARY BY CATEGORY AND PROGRAM

3-8

PROGRAM	NUMBER OF PROJECTS	SEA GRANT	PASS THRU	FEDERAL	MATCHING	TOTAL
CATEGORY: 80 - REVITALIZING MARINE INFRASTRUCTURE						
CALIFORNIA	1	47,410	0	47,410	23,832	71,242
HAWAII	1	24,989	0	24,989	23,987	48,976
INDEPENDENT/OTHER	1	47,955	0	47,955	0	47,955
OHIO	1	45,834	0	45,834	41,459	87,293
Grand Total:	4	166,188	0	166,188	89,278	255,466

1998 PROJECT FUNDING SUMMARY BY CATEGORY AND PROGRAM

3-9

PROGRAM	NUMBER OF PROJECTS	SEA GRANT	PASS THRU	FEDERAL	MATCHING	TOTAL
CATEGORY: 90 - COASTAL AND GREAT LAKES WATER QUALITY						
CALIFORNIA	8	311,536	0	311,536	195,100	506,636
CONNECTICUT	1	73,325	0	73,325	23,483	96,808
GEORGIA	2	107,582	0	107,582	52,766	160,328
HAWAII	7	200,656	0	200,656	211,340	411,996
ILLINOIS/INDIANA	5	298,213	0	298,213	141,231	437,444
INDEPENDENT/OTHER	5	249,108	388,508	637,616	0	637,616
LOUISIANA	4	224,037	177,623	401,660	112,777	514,437
MAINE/NEW HAMPSHIRE	6	63,765	408,719	472,484	25,764	498,248
MARYLAND	8	225,844	238,638	464,482	136,734	601,216
MASSACHUSETTS	3	190,928	0	190,928	97,942	288,870
MINNESOTA	4	59,690	0	59,690	105,803	165,493
MISSISSIPPI/ALABAMA	2	80,637	0	80,637	40,804	121,441
NEW JERSEY	4	159,393	0	159,393	246,229	405,622
NEW YORK	9	118,841	493,928	612,769	164,554	777,323
NORTH CAROLINA	2	136,251	0	136,251	8,000	144,251
OHIO	1	29,836	0	29,836	30,700	60,536
OREGON	2	157,202	0	157,202	25,160	182,362
PUERTO RICO	2	132,021	0	132,021	125,419	257,440
RHODE ISLAND	6	455,925	0	455,925	330,912	786,837
SOUTHERN CALIFORNIA	4	183,787	0	183,787	161,956	345,743
TEXAS	4	246,264	0	246,264	144,613	390,877
VIRGINIA	14	100,000	425,018	525,018	50,000	575,018
WASHINGTON	1	41,300	0	41,300	43,081	84,381
WISCONSIN	8	457,517	0	457,517	221,763	679,280
WOOD HOLE OCEANOGRAPHIC INST.	7	254,639	75,714	330,353	174,900	505,253
Grand Total:	117	4,556,277	2,208,148	6,764,425	2,871,031	9,635,456

1998 PROJECT FUNDING SUMMARY BY CATEGORY AND PROGRAM

3-10

PROGRAM	NUMBER OF PROJECTS	SEA GRANT	PASS THRU	FEDERAL	MATCHING	TOTAL
CATEGORY: 100 - COASTAL AND GREAT LAKES HABITATS						
ALASKA	1	92,405	0	92,405	150,199	242,604
CALIFORNIA	11	525,301	136,833	662,134	497,311	1,159,445
CONNECTICUT	2	73,737	0	73,737	52,328	126,065
DELAWARE	1	19,592	0	19,592	40,414	60,006
FLORIDA	1	0	180,000	180,000	0	180,000
GEORGIA	2	100,090	0	100,090	40,593	140,683
HAWAII	3	164,943	0	164,943	156,326	321,269
ILLINOIS/INDIANA	3	126,195	0	126,195	61,037	187,232
INDEPENDENT/OTHER	4	50,000	173,389	223,389	46,128	269,517
LOUISIANA	4	133,922	54,992	188,914	82,737	271,651
MAINE/NEW HAMPSHIRE	4	160,731	125,244	285,975	43,204	329,179
MARYLAND	3	73,253	1,660,030	1,733,283	63,967	1,797,250
MASSACHUSETTS	1	23,615	0	23,615	11,910	35,525
MINNESOTA	2	0	0	0	74,000	74,000
NEW JERSEY	2	95,954	0	95,954	70,042	165,996
NEW YORK	5	240,072	0	240,072	170,848	410,920
NORTH CAROLINA	1	15,289	0	15,289	15,006	30,295
OHIO	5	100,924	0	100,924	71,899	172,823
OREGON	4	93,715	40,000	133,715	112,124	245,839
PUERTO RICO	1	26,952	0	26,952	15,025	41,977
RHODE ISLAND	1	81,476	0	81,476	39,614	121,090
SOUTH CAROLINA	3	144,346	727,000	871,346	250,043	1,121,389
TEXAS	2	19,575	93,182	112,757	14,306	127,063
WASHINGTON	6	416,610	174,735	591,345	267,640	858,985
WISCONSIN	4	353,311	0	353,311	0	353,311
Grand Total:	76	3,132,008	3,365,405	6,497,413	2,346,701	8,844,114

1998 PROJECT FUNDING SUMMARY BY CATEGORY AND PROGRAM

3-11

PROGRAM	NUMBER OF PROJECTS	SEA GRANT	PASS THRU	FEDERAL	MATCHING	TOTAL
CATEGORY: 110 - SUSTAINABLE DEVELOPMENT						
CALIFORNIA	1	7,048	0	7,048	28,473	33,519
CONNECTICUT	1	45,265	0	45,265	84,493	129,758
FLORIDA	1	29,136	0	29,136	15,000	44,136
MARYLAND	1	26,512	0	26,512	18,063	44,575
MASSACHUSETTS	1	100,000	0	100,000	50,000	150,000
NORTH CAROLINA	1	16,836	0	16,836	7,385	24,221
RHODE ISLAND	1	0	31,000	31,000	0	31,000
SOUTH CAROLINA	4	112,275	175,000	287,275	208,044	495,319
TEXAS	1	59,920	0	59,920	32,632	92,552
WASHINGTON	3	22,600	85,000	107,600	31,050	138,650
WISCONSIN	2	52,211	0	52,211	28,002	80,213
Grand Total:	17	471,801	291,000	762,801	501,142	1,263,943

1998 PROJECT FUNDING SUMMARY BY CATEGORY AND PROGRAM

3-12

PROGRAM	NUMBER OF PROJECTS	SEA GRANT	PASS THRU	FEDERAL	MATCHING	TOTAL
CATEGORY: 120 - COASTAL AND NATURAL HAZARDS						
CALIFORNIA	2	55,335	0	55,335	49,304	104,639
DELAWARE	5	43,311	0	43,311	203,543	246,854
FLORIDA	4	201,903	0	201,903	101,239	303,142
HAWAII	3	120,755	0	120,755	21,392	142,147
LOUISIANA	2	66,207	0	66,207	45,584	111,791
MAINE/NEW HAMPSHIRE	2	104,779	0	104,779	37,367	142,146
MASSACHUSETTS	1	70,012	0	70,012	36,214	106,226
MICHIGAN	1	40,000	0	40,000	20,000	60,000
MISSISSIPPI/ALABAMA	1	13,765	0	13,765	5,709	19,474
NORTH CAROLINA	1	30,808	0	30,808	0	30,808
OHIO	2	83,588	20,000	103,588	42,191	145,779
PUERTO RICO	1	51,093	0	51,093	13,173	64,266
RHODE ISLAND	1	11,418	0	11,418	5,708	17,126
SOUTH CAROLINA	7	103,210	349,500	452,710	171,823	624,533
TEXAS	1	8,118	0	8,118	3,398	11,516
WISCONSIN	1	71,192	0	71,192	33,687	104,879
WOOD HOLE OCEANOGRAPHIC INST.	2	42,221	0	42,221	90,294	132,515
Grand Total:	37	1,117,713	369,500	1,487,213	880,626	2,367,839

1998 PROJECT FUNDING SUMMARY BY CATEGORY AND PROGRAM

3-13

PROGRAM	NUMBER OF PROJECTS	SEA GRANT	PASS THRU	FEDERAL	MATCHING	TOTAL
CATEGORY: 130 - SAFETY AT SEA						
INDEPENDENT/OTHER	1	38,000	0	38,000	0	38,000
WISCONSIN	1	37,993	0	37,993	16,220	54,213
Grand Total:	2	75,993	0	75,993	16,220	92,213

1998 PROJECT FUNDING SUMMARY BY CATEGORY AND PROGRAM

3-14

PROGRAM	NUMBER OF PROJECTS	SEA GRANT	PASS THRU	FEDERAL	MATCHING	TOTAL
CATEGORY: 140 - EDUCATION						
ALASKA	1	144,843	0	144,843	0	144,843
CALIFORNIA	4	514,776	36,000	550,776	74,996	625,772
CONNECTICUT	3	84,994	36,000	100,994	39,092	140,086
DELAWARE	2	294,258	36,000	330,258	0	330,258
GEORGIA	4	172,368	36,000	208,368	108,675	317,043
HAWAII	1	36,000	0	36,000	0	36,000
ILLINOIS/INDIANA	1	36,000	0	36,000	20,286	56,286
INDEPENDENT/OTHER	1	0	59,500	59,500	29,426	88,926
LOUISIANA	5	137,139	36,000	173,139	33,575	206,714
MAINE/NEW HAMPSHIRE	2	59,001	0	59,001	43,912	102,913
MARYLAND	5	212,000	72,000	284,000	54,528	338,528
MASSACHUSETTS	3	211,298	0	211,298	188,048	399,346
MICHIGAN	1	36,000	0	36,000	0	36,000
MINNESOTA	1	225,088	0	225,088	0	225,088
MISSISSIPPI/ALABAMA	2	76,390	0	76,390	46,341	122,731
NEW JERSEY	1	39,238	0	39,238	17,230	56,468
NEW YORK	2	182,133	36,000	218,133	0	218,133
NORTH CAROLINA	4	243,480	72,000	315,480	0	315,480
OHIO	2	44,407	36,000	80,407	34,422	114,829
OREGON	3	66,638	36,000	102,638	37,983	140,621
PUERTO RICO	2	55,001	36,000	91,001	53,424	144,425
SOUTH CAROLINA	5	86,142	372,000	458,142	25,111	483,253
TEXAS	2	91,030	0	91,030	27,715	118,745
VIRGINIA	1	0	36,000	36,000	0	36,000
WASHINGTON	2	72,000	0	72,000	0	72,000
WISCONSIN	1	40,251	0	40,251	19,562	59,813
WOOD HOLE OCEANOGRAPHIC INST.	1	36,000	0	36,000	0	36,000
Grand Total:	62	3,176,475	935,500	4,111,975	854,326	4,966,301

1998 PROJECT FUNDING SUMMARY BY CATEGORY AND PROGRAM

3-15

PROGRAM	NUMBER OF PROJECTS	SEA GRANT	PASS THRU	FEDERAL	MATCHING	TOTAL
CATEGORY: 150 - SEA GRANT EXTENSION PROGRAM						
ALASKA	1	431,672	0	431,672	271,599	703,271
CALIFORNIA	2	687,640	0	687,640	418,044	1,105,684
CONNECTICUT	2	166,439	0	166,439	103,921	270,360
DELAWARE	1	254,435	0	254,435	337,812	592,247
FLORIDA	1	580,800	0	580,800	317,560	898,360
GEORGIA	1	219,646	0	219,646	217,869	437,515
HAWAII	1	585,157	0	585,157	305,923	891,080
ILLINOIS/INDIANA	3	158,760	0	158,760	147,491	306,251
INDEPENDENT/OTHER	1	159,303	0	159,303	122,186	281,489
LOUISIANA	4	367,788	0	367,788	342,028	709,816
MAINE/NEW HAMPSHIRE	2	439,345	100,000	539,345	236,516	775,861
MARYLAND	1	210,000	0	210,000	116,600	325,600
MASSACHUSETTS	2	87,000	0	87,000	24,000	111,000
MICHIGAN	1	447,281	0	447,281	222,262	669,543
MINNESOTA	1	221,175	0	221,175	118,935	340,110
MISSISSIPPI/ALABAMA	2	173,695	0	173,695	149,031	322,726
NEW JERSEY	1	125,000	0	125,000	66,526	191,526
NEW YORK	1	709,500	0	709,500	360,128	1,069,628
NORTH CAROLINA	1	436,144	0	436,144	484,753	920,897
OHIO	1	315,741	0	315,741	190,097	505,838
OREGON	1	640,000	0	640,000	735,450	1,375,450
PUERTO RICO	2	182,492	0	182,492	200,500	382,992
RHODE ISLAND	2	400,000	0	400,000	242,369	642,369
SOUTH CAROLINA	2	396,550	0	396,550	248,977	645,527
TEXAS	1	440,000	0	440,000	245,241	685,241
VIRGINIA	1	565,767	0	565,767	415,262	981,029
WASHINGTON	1	682,600	0	682,600	421,634	1,104,234
WISCONSIN	1	211,031	0	211,031	296,934	507,965
WOOD HOLE OCEANOGRAPHIC INST.	1	140,571	0	140,571	71,500	212,071
Grand Total:	42	10,435,732	100,000	10,535,732	7,430,148	17,965,880

1998 PROJECT FUNDING SUMMARY BY CATEGORY AND PROGRAM

3-16

PROGRAM	NUMBER OF PROJECTS	SEA GRANT	PASS THRU	FEDERAL	MATCHING	TOTAL
CATEGORY: 160 - COMMUNICATIONS						
ALASKA	2	150,715	0	150,715	228,984	379,699
CALIFORNIA	1	326,134	0	326,134	71,864	397,998
CONNECTICUT	1	125,329	0	125,329	0	125,329
DELAWARE	1	180,777	0	180,777	127,162	307,939
FLORIDA	1	125,000	0	125,000	62,500	187,500
GEORGIA	1	184,387	0	184,387	0	184,387
HAWAII	1	125,000	0	125,000	36,000	161,000
ILLINOIS/INDIANA	1	104,491	0	104,491	49,118	153,609
INDEPENDENT/OTHER	1	152,247	0	152,247	0	152,247
LOUISIANA	1	58,000	0	58,000	133,650	191,650
MAINE/NEW HAMPSHIRE	2	217,503	0	217,503	110,265	327,768
MARYLAND	3	191,928	0	191,928	106,621	298,549
MASSACHUSETTS	1	247,439	0	247,439	67,800	315,239
MICHIGAN	1	174,550	0	174,550	81,838	256,388
MINNESOTA	1	117,940	0	117,940	31,223	149,163
MISSISSIPPI/ALABAMA	1	74,595	0	74,595	26,346	100,941
NEW JERSEY	1	93,119	0	93,119	39,744	132,863
NEW YORK	1	104,082	0	104,082	0	104,082
NORTH CAROLINA	1	75,239	0	75,239	134,030	209,269
OHIO	1	50,723	0	50,723	23,306	74,029
OREGON	1	274,833	0	274,833	149,230	424,063
PUERTO RICO	1	97,793	0	97,793	121,722	219,515
RHODE ISLAND	1	219,113	0	219,113	79,849	298,962
SOUTH CAROLINA	5	507,095	0	507,095	88,893	595,988
TEXAS	1	177,479	0	177,479	106,105	283,584
WASHINGTON	1	273,700	0	273,700	56,605	330,305
WISCONSIN	2	236,399	0	236,399	262,921	499,320
WOOD HOLE OCEANOGRAPHIC INST.	3	153,192	0	153,192	53,491	206,683
Grand Total:	39	4,818,802	0	4,818,802	2,249,267	7,068,069

1998 PROJECT FUNDING SUMMARY BY CATEGORY AND PROGRAM

3-17

PROGRAM	NUMBER OF PROJECTS	SEA GRANT	PASS THRU	FEDERAL	MATCHING	TOTAL
CATEGORY: 170 - PROGRAM ADMINISTRATION						
ALASKA	1	95,021	0	95,021	140,784	235,805
CALIFORNIA	1	297,655	0	297,655	123,196	420,851
CONNECTICUT	1	143,311	0	143,311	190,849	334,160
DELAWARE	1	71,760	0	71,760	71,956	143,716
FLORIDA	1	158,000	0	158,000	79,513	237,513
GEORGIA	1	100,035	0	100,035	94,411	194,446
HAWAII	1	131,770	0	131,770	18,000	149,770
ILLINOIS/INDIANA	2	65,000	0	65,000	190,602	255,602
INDEPENDENT/OTHER	1	227,162	0	227,162	0	227,162
LOUISIANA	1	40,712	0	40,712	259,562	300,274
MAINE/NEW HAMPSHIRE	1	192,296	0	192,296	195,024	387,320
MARYLAND	1	69,414	0	69,414	82,666	152,080
MASSACHUSETTS	1	170,187	0	170,187	233,606	403,793
MICHIGAN	1	74,214	0	74,214	178,316	252,530
MINNESOTA	2	228,797	0	228,797	36,339	265,136
MISSISSIPPI/ALABAMA	2	381,488	0	381,488	98,237	479,725
NEW JERSEY	1	175,619	0	175,619	92,930	268,549
NEW YORK	1	226,489	0	226,489	283,318	509,807
NORTH CAROLINA	1	131,183	0	131,183	0	131,183
OHIO	1	92,504	0	92,504	108,449	200,953
OREGON	1	155,170	0	155,170	306,248	461,418
PUERTO RICO	1	78,632	0	78,632	108,944	187,576
RHODE ISLAND	1	291,485	0	291,485	0	291,485
SOUTH CAROLINA	3	174,190	0	174,190	118,762	292,952
TEXAS	1	224,803	0	224,803	152,679	377,482
VIRGINIA	1	212,386	0	212,386	60,000	272,386
WASHINGTON	1	163,200	0	163,200	0	163,200
WISCONSIN	1	150,080	0	150,080	158,711	308,791
WOOD HOLE OCEANOGRAPHIC INST.	1	109,931	0	109,931	142,621	252,552
Grand Total:	34	4,632,494	0	4,632,494	3,525,723	8,158,217

1998 PROJECT FUNDING SUMMARY BY CATEGORY AND PROGRAM

3-18

PROGRAM	NUMBER OF PROJECTS	SEA GRANT	PASS THRU	FEDERAL	MATCHING	TOTAL
CATEGORY: 180 - PROGRAM DEVELOPMENT						
ALASKA	2	43,412	0	43,412	0	43,412
CALIFORNIA	2	563,287	0	563,287	56,951	620,238
CONNECTICUT	2	135,000	0	135,000	0	135,000
DELAWARE	1	147,638	0	147,638	0	147,638
FLORIDA	2	105,422	0	105,422	0	105,422
GEORGIA	1	144,494	0	144,494	116,820	261,314
HAWAII	1	24,971	0	24,971	15,552	40,523
ILLINOIS/INDIANA	1	13,434	0	13,434	0	13,434
LOUISIANA	2	129,224	0	129,224	40,550	169,774
MAINE/NEW HAMPSHIRE	2	165,014	0	165,014	67,732	232,746
MARYLAND	1	61,000	0	61,000	29,206	90,206
MASSACHUSETTS	1	186,836	0	186,836	93,464	280,300
MICHIGAN	1	69,000	0	69,000	0	69,000
MINNESOTA	2	13,000	0	13,000	42,250	55,250
NEW JERSEY	2	103,890	0	103,890	125,000	228,890
NEW YORK	2	219,551	0	219,551	0	219,551
NORTH CAROLINA	2	75,000	0	75,000	0	75,000
OHIO	2	177,000	0	177,000	0	177,000
OREGON	3	357,036	0	357,036	0	357,036
PUERTO RICO	2	105,782	0	105,782	15,000	120,782
RHODE ISLAND	1	93,020	0	93,020	0	93,020
SOUTH CAROLINA	2	236,188	0	236,188	21,544	257,732
TEXAS	3	134,080	0	134,080	37,289	171,369
VIRGINIA	2	225,384	0	225,384	25,000	250,384
WASHINGTON	1	147,000	0	147,000	0	147,000
WISCONSIN	2	129,400	0	129,400	75,334	204,734
WOOD HOLE OCEANOGRAPHIC INST.	1	28,800	0	28,800	0	28,800
Grand Total:	46	3,833,863	0	3,833,863	761,692	4,595,555

Section Four: Project Listing by Category

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-1

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
Category: 11 - MOLECULAR GENETICS					
R/A-107 (11549)	JANE BURNS Title: GENETIC ENGINEERING TO CREATE A TRANSFORMED OYSTER CELL LINE	CALIFORNIA	93,077	0	47,254
R/P-60 (10231)	JOHN J. STEGEMAN Title: FISH CYTOCHROME P450 GENES INVOLVED IN CHEMICAL EFFECTS	WOOD HOLE OCEANOGRAPHIC INST.	101,706	0	33,390
R/P-61 (10232)	JOHN STEGEMAN Title: MOLECULAR BIOLOGICAL APPROACHES FOR NON-DESTRUCTIVE ASSESSMENT OF CHEMICAL EFFECTS ON MARINE MAMMALS	WOOD HOLE OCEANOGRAPHIC INST.	84,746	0	57,452
Number of Projects: 3			<u>Subtotal:</u> 279,529	<u>0</u>	<u>138,096</u>

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-2

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
Category: 12 - NATURAL PRODUCTS: CHEMISTRY AND BIOLOGICAL ACTIVITY					
R/MP-81 (11949)	ROBERT S. JACOBS Title: MARINE INFLAMMATION RESEARCH PROGRAM 1. PHARMACOLOGICAL AND BIOCHEMICAL STUDIES OF INFLAMMATORY PROCESSES	CALIFORNIA	83,832	0	58,186
R/MP-77 (11950)	ROBERT E. SHADWICK Title: MARINE NATURAL MATERIALS: NOVEL BIOLOGICAL ELASTOMERS FROM MARINE ORGANISMS	CALIFORNIA	29,525	0	49,944
R/MP-80 (11954)	WILLIAM FENICAL Title: ANTIVIRAL DRUGS FROM DEEP-SEA MARINE MICROORGANISMS	CALIFORNIA	99,894	0	53,503
R/MP-79 (11967)	DAVID EPEL Title: MOLECULAR AND BIOCHEMICAL CHARACTERIZATION OF MICROBIAL SYMBIONTS AND THEIR BIOACTIVITIES IN SEPIOD AND LOLIGINID SQUIDS	CALIFORNIA	95,746	0	46,607
E/IF-2 (12165)	CHRISTOPHER S. STEVENSON/JAMES D. WINKLER Title: MARINE NATURAL PRODUCTS THAT MODULATE PLATELET-DERIVED GROWTH FACTOR RECEPTOR ACTIVATION AND FIBROBLAST PROLIFERATION	CALIFORNIA	30,000	0	30,000
R/LR-MB-3 (11711)	J. PAUL Title: DEVELOPMENT OF A MARINE PROPHAGE INDUCTION ASSAY FOR DETECTION OF MUTAGENS IN SEAWATER SAMPLES	FLORIDA	55,000	0	27,805

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-3

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
R/LR-MB-7 (11715)	S. SENNETT Title: CELLULAR LOCALIZATION AND PRODUCTION OF BIOACTIVE DISCODERMIA METABOLITES	FLORIDA	59,943	0	51,223
R/MP-12 (11841)	MARCUS A. TITUS Title: TNF-ALPHA INHIBITORS FROM A MARINE SOURCE	HAWAII	76,140	0	17,296
R/MP-11 (11373)	SOPHIA KATHARIOU Title: NOVEL ANTIBIOTICS FROM BENTHIC MICROORGANISMS	HAWAII	48,147	0	15,379
R/MP-3 (10618)	PAUL J. SCHEUER Title: BIOACTIVE MARINE METABOLITES	HAWAII	39,232	0	7,803
R/UT-2 (11107)	CHRIS M. IRELAND & LOUIS R. BARROWS Title: METABOLITE STUDIES WITH MARINE MICROORGANISMS.	INDEPENDENT/OTHER	73,267	0	36,634
R/BT-03 (11257)	SAUL ROSEMAN Title: THE CHITIN OLIGOSACCHARIDES A POTENTIAL ROLE FOR MAJOR ECOLOGICAL WASTE PRODUCT	MARYLAND	85,357	0	42,271
R-B-45 (12104)	RALPH MITCHELL Title: DEVELOPMENT OF NOVEL ENVIRONMENTALLY-ACCEPTABLE MARINE ANTIFOULING COATINGS BASED ON MICROBIAL METABOLITES	MASSACHUSETTS	75,000	0	37,500

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-4

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
R/MT-40 (11685)	CHARLES D. AMSLER Title: ISOLATION AND PURIFICATION OF BIOACTIVE COMPOUNDS FROM ECHINODERMS UTILIZING A NOVEL BIOFOULING ASSAY	MISSISSIPPI/ALABAMA	47,439	0	28,405
R/MT-41 (11686)	JORDAN K. ZJAWIONY Title: SEMISYNTHETIC AND MICROBIAL TRANSFORMATIONS OF MARINE NATURAL PRODUCTS FOR TECHNOLOGICAL DEVELOPMENT IN HUMAN HEALTH AND AGRICULTURE	MISSISSIPPI/ALABAMA	47,405	0	58,692
R/BT-9801 (11834)	GILL DIAMOND Title: ANTIMICROBIAL PEPTIDES FROM FISH SKIN	NEW JERSEY	59,657	0	45,557
R/XBP-6 (11725)	JON C. CLARDY Title: DIDEMNIN AND STRUCTURE-BASED DRUG DESIGN FOR CANCER AND IMMUNOSUPPRESSION	NEW YORK	83,313	0	46,820
R/XG-9 (11724)	HOWARD R. LASKER Title: POPULATION ECOLOGY OF A HARVESTABLE MARINE RESOURCE: THE CARIBBEAN GORGONIAN PSEUDOPTEROGORGIA ELISABETHAE	NEW YORK	97,787	0	55,710
R/BT-24 (11807)	WILLIAM H. GERWICK Title: MULTIFACETED DRUG AND AGRICHEMICAL DISCOVERY FROM MARINE ALGAE	OREGON	100,000	0	49,938
R/MX-7 (11070)	A. P. WHEELER/R. J. ROSS Title: ENVIRONMENTAL AND BIOLOGICAL FATE OF NEW POLYMER ADDITIVES FOR INDUSTRIAL AND AGRICULTURAL APPLICATIONS.	SOUTH CAROLINA	39,990	0	18,395

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-5

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
R/B-24 (11771)	J. DEMING/B. KRIEGER-BROCKETT Title: LOW-TEMPERATURE ENZYMES FROM MARINE BACTERIA FOR BIOTECHNOLOGY AND BIOREMEDIATION	WASHINGTON	83,600	0	45,696
R/NP-1 (11775)	JOHN BAROSS/DAVID BUTTERFIELD Title: DIVERSITY OF MICROBIAL COMMUNITIES AND THEIR HABITATS AT AXIAL VOLCANO, JUAN DE FUCA RIDGE	WASHINGTON	22,420	0	35,919
R/B-22 (11770)	JOHN A. BAROSS Title: EXTREMELY HIGH TEMPERATURE ENZYMES FOR BIOTECHNOLOGY FROM MARINE MICROORGANISMS	WASHINGTON	90,600	0	27,754
R/B-32 (11773)	JOHN BLINKS Title: IMPROVE RECOMBINANT PHOTOPROTEINS FOR BIOMEDICAL RESEARCH	WASHINGTON	90,200	0	162,020
R/B-26 (11772)	LEE A. HADWIGER Title: ANTICANCER AND GENE REGULATORY PROPERTIES OF CRAB SHELL CHITOSAN	WASHINGTON	48,900	0	28,822
R/B-28 (11774)	BRADLEY MOORE Title: GENETIC-BASED SCREEN FOR MARINE ACTINOMYCETE AND SPONGE SYMBIONT NATURAL PRODUCTS	WASHINGTON	99,440	0	50,697
Number of Projects: <u>26</u>		Subtotal:	<u>1,761,834</u>	<u>0</u>	<u>1,128,576</u>

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-6

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
Category: 13 - BIOPROCESSING, BIOREACTION, CELL AND TISSUE CULTURE					
R/MP-82 (11958)	DANIEL E. MORSE Title: NEW HIGH-PERFORMANCE COMPOSITE MATERIALS FROM MARINE BIOMINERALIZATION	CALIFORNIA	100,292	0	59,339
R/LR-MB-6 (11714)	R. KERR Title: DEVELOPMENT AND OPTIMIZATION OF IN-VITRO PRODUCTION METHODS OF BIOACTIVE MARINE ALKALOIDS	FLORIDA	91,807	0	56,685
R/LR-MB-4 (11712)	B. BAKER Title: MARINE INVERTEBRATE-ASSOCIATED MICROORGANISMS AS A SOURCE OF NOVEL AGENTS FOR BIOTECHNOLOGY	FLORIDA	59,997	0	41,699
R/LR-MB-5 (11713)	S. POMPONI Title: MARINE INVERTEBRATE CELL CULTURE FOR IN VITRO PRODUCTION OF COMPOUNDS WITH THERAPEUTIC POTENTIAL	FLORIDA	74,978	0	47,324
R/AT-5 (11839)	ROBERT HODSON Title: OPTIMIZATION OF NEW BACTERIAL IN SITU POLYMERASE CHAIN REACTION (PCR) METHODOLOGIES TO SUPPORT SEA GRANT MISSIONS	GEORGIA	95,865	0	44,151
R/AQ-46 (10608)	PHILIP C. LOH Title: CONTINUING STUDIES ON THE DEVELOPMENT AND EVALUATION OF VIRUS FOR DETECTION AND CELL CULTURE TECHNOLOGIES FOR VIRAL DISEASES OF THE PENAEID SHRIMP	HAWAII	43,986	0	46,969

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-7

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
R/MP-4 (10619)	GREGORY M. L. PATTERSON Title: INDUSTRIAL MICROBIOLOGY OF CYANOBACTERIA (BLUE-GREEN ALGAE)	HAWAII	22,306	0	51,292
R/GOI-11 (12189)	JANE C. BURNS/CAROLYN FRIEDMAN Title: CREATION OF AN OYSTER CELL LINE IN CRASSOSTREA VIRGINICA	LOUISIANA	172,612	0	94,125
R/B-124 (10229)	MARK E. HAHN Title: IDENTIFICATION OF BIOACTIVE MARINE NATURAL PRODUCTS USING A FISH CELL CULTURE ASSAY	WOOD HOLE OCEANOGRAPHIC INST.	55,116	0	15,836
Number of Projects: 9			Subtotal: 716,959	0	457,420

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-8

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
Category: 21 - ENHANCEMENT OF ENVIRONMENTAL MONITORING AND ASSESSMENT					
R/F-172 (11455)	DAVID M. CHECKLEY Title: REALTIME ASSESSMENT OF PELAGIC FISH EGGS AT SEA	CALIFORNIA	77,726	0	65,528
R/B-33 (10202)	GEORGE W. LUTHER, III Title: VOLTAMMETRIC MICROELECTRODES FOR THE DETERMINATION OF BIOGEOCHEMICALLY RELEVANT SPECIES IN SEDIMENTS AND WATERS	DELAWARE	31,267	0	21,956
R/NCOP-5 (11305)	JAMES C. CATO Title: OCEAN COLOR ALGORITHM FOR REMOTE SENSING OF COASTAL AND ESTUARINE WATERS: U.S. SOUTH ATLANTIC BIGHT AND EASTERN GULF OF MEXICO	FLORIDA	0	20,663	0
R/MC-1 (10616)	JOHN WILTSHIRE Title: TAILINGS MANAGEMENT FOR A MARINE MINERALS INDUSTRY (CONTINUATION)	HAWAII	9,809	0	13,495
R/ES-4 (11371)	J. YUH Title: INTELLIGENT MOTION PLANNING AND NAVIGATION FOR UNMANNED UNDERWATER VEHICLES	HAWAII	50,500	0	55,336
R/ES-2 (11356)	THOMAS F. COONEY Title: DEVELOPMENT OF A FIBER-OPTIC OCEAN COLOR AND FLUORESCENCE PROBE AND DATA ANALYSIS ALGORITHMS FOR IN SITU MEASUREMENTS OF PHYTOPLANKTON PRODUCTIVITY	HAWAII	32,430	0	50,216

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-11

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
Category: 22 - POLLUTION CONTROL AND PREVENTION					
R/ME-21 (11308)	J. L. GALLAGHER/D. M. SELISKAR Title: OPTIMIZING REED (PHRAGMITES AUSTRALIS) FUNCTION IN SLUDGE DRYING BEDS: PRODUCING A MORE EFFECTIVE GENOTYPE	DELAWARE	18,657	0	34,810
R/GOI-2 (12171)	SHARONNE O'SHEA Title: LEGAL AUTHORITY TO CLEAN UP OYSTER BEDS CLOSED DUE TO POLLUTION	LOUISIANA	30,668	0	16,285
R/GOI-4 (12175)	KELLY A. RUSCH/D. DEAN ADRAIN Title: DETERMINATION OF OPERATIONAL CRITERIA FOR A MARSHLAND UPWELLING SYSTEM TO TREAT DOMESTIC WASTEWATER FROM COASTAL CAMPS	LOUISIANA	78,546	0	40,677
Number of Projects: 3			<u>Subtotal:</u>	<u>127,871</u>	<u>0</u>
					<u>91,772</u>

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-12

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
Category: 23 - REMEDIATION					
R/EC-03-97 (11864)	DEBORAH D. ROSS Title: BIOREMEDIATION OF SEDIMENTS CONTAMINATED BY POLYNUCLEAR AROMATIC HYDROCARBONS	ILLINOIS/INDIANA	30,016	0	21,591
R/MBT-3 (12081)	TIMOTHY P. CROUGHAN Title: RECLAIMING OPEN WATER MARSH THROUGH BIOTECHNOLOGY	LOUISIANA	62,934	0	21,287
R/BT-4 (11931)	RICHARD SAYRE/SAM TRAINA/TERRY GUSTAFSON/LADA MALEK Title: BIOCOMPLEXATION OF HEAVY METALS BY ENGINEERED ALGAE	OHIO	97,139	0	62,648
R/MT-1 (11071)	L. MARTON/J.T. MORRIS/M. CZAKO Title: DEVELOPING THE FOUNDATIONS OF A HEAVY METAL WASTE PROCESSING TECHNOLOGY BY GENETIC ENGINEERING OF SPARTINA ALTERNIFLORA FOR CONSTRUCTION WETLANDS	SOUTH CAROLINA	78,000	0	41,880
R/B-33 (11776)	J. LEIGH/J. STALEY/S. STRAND Title: MICROBIOLOGY OF ANEROBIC PAH DEGRADATION IN MARINE SEDIMENT	WASHINGTON	66,100	0	34,611
R/NP-2 (11777)	B. KRIEGER-BROCKETT/J.DEMING Title: IMPROVING RATES OF BIOREMEDIATION WITH BENEFICIAL EFFECTS ON THE AQUATIC ECOSYSTEM	WASHINGTON	81,500	0	45,400
Number of Projects: 6			<u>Subtotal:</u> 415,689	<u>0</u>	<u>227,417</u>

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-13

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
Category: 31 - ECOSYSTEM-BASED MANAGEMENT					
R/31-01 (11889)	THOMAS J. WEINGARTNER Title: MONITORING TRANSPORT IN THE ALASKA COASTAL CURRENT: A FEASIBILITY STUDY	ALASKA	39,383	0	0
R/O8-08 (11401)	MICHAEL CASTELLINI Title: CONDITION AND HEALTH OF ALASKAN SEALS AND SEA LIONS	ALASKA	42,537	0	0
R/O7-22 (11397)	BRUCE FINNEY Title: LONG-TERM VARIABILITY IN ALASKAN SOCKEYE SALMON ABUNDANCE	ALASKA	49,479	0	0
R/31-04 N (11883)	T. J. QUINN/L. J. HALDORSON Title: ADAPTIVE SAMPLING OF ROCKFISHES IN THE GULF OF ALASKA	ALASKA	49,676	0	25,130
R/O6-36 (11400)	A. J. PAUL Title: REPRODUCTIVE BIOLOGY OF BROWN KING CRAB	ALASKA	72,255	0	0
R/31-03 (11887)	TERRANCE J. QUINN, II Title: EXTENSIONS TO A LENGTH-BASED POPULATION MODEL FOR INVERTEBRATE POPULATIONS	ALASKA	23,771	0	0

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-14

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
R/CZ-137 (11961)	NICHOLAS A. WELSCHMEYER Title: THE EFFECTS OF COASTAL FOG ON PLANKTONIC PRODUCTION AND FOOD WEB STRUCTURE	CALIFORNIA	44,657	0	38,837
R/F-174 (12132)	GREGOR M. CAILLIET Title: RADIOMETRIC AGE VALIDATION OF THE BOCACCIO ROCKFISH, SEBASTES PAUCISPINIS	CALIFORNIA	20,000	0	20,000
R/F-25-3PT (11977)	GEORGE HUNT Title: MONITORING AND DEVELOPMENT OF BIOPHYSICAL INDICES OF THE SOUTHEASTERN BERING SEA	CALIFORNIA	0	11,000	0
R/CZ-156 (11972)	KEITH D. STOLZENBACH Title: INTEGRATED MODELING OF THE SOUTHERN CALIFORNIA COASTAL OCEAN: BIOGEOCHEMISTRY AND PARTICULATE DYNAMICS	CALIFORNIA	71,302	0	52,885
R/CZ-138 (11459)	MICHAEL M. MULLIN Title: INTERDECADAL CHANGE IN CALIFORNIA CURRENT ZOOPLANKTON-RETROSPECTIVE ANALYSES BY OPTICAL PLANKTON COUNTER	CALIFORNIA	56,817	0	39,674
R/F-170 (11457)	RONALD S. BURTON Title: RECRUITMENT PATTERNS IN RED SEA URCHINS: A POPULATION GENETICS APPROACH	CALIFORNIA	28,965	0	31,640
R/F-171 (11454)	GRAHAM E. FORRESTER Title: TRACE ELEMENTAL FINGERPRINTING OF OTOLITHS USING ICPS-MS TO DETERMINE THE POPULATION STRUCTURE OF MARINE FISHES	CALIFORNIA	22,345	0	8,960

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	4-15
					MATCHING
R/F-175 (12133)	JOHN R. HUNTER/RUSSELL D. VETTER Title: POPULATION GENETICS AND MANAGEMENT OF NEARSHORE ROCKFISHES (SEBASTES) TAKEN IN THE LIVE FISH FISHERY	CALIFORNIA	22,437	0	20,000
R/F-10 (11311)	CHARLES E. EPIFANIO Title: RECRUITMENT IN BUOYANCY-DRIVEN COASTAL SYSTEMS	DELAWARE	31,101	0	58,566
R/F-9 (11310)	NANCY M. TARGETT Title: MIMICKING HORSESHOE CRAB EGGS: IN SEARCH OF AN ARTIFICIAL BAIT	DELAWARE	14,619	0	22,320
R/F-8 (11309)	TIMOTHY E. TARGETT Title: OPTIMAL NURSERY GROUND CONDITIONS FOR TWO SPECIES OF PARALICHTHYID FLOUNDERS: EXPERIMENTAL DETERMINATION OF THE EFFECTS OF PHYSICOCHEMICAL GRADIENTS	DELAWARE	28,421	0	22,084
R/B-36 (11306)	CHARLES E. EPIFANIO Title: SETTLEMENT OF CRUSTACEAN LARVAE: THE ROLE OF BIOFILMS AND CHEMICAL CUES	DELAWARE	18,643	0	45,384
R/LR-A-25 (11703)	K.M. LEBER Title: ECOPHYSIOLOGICAL ASSESSMENTS OF CRITICAL JUVENILE FISH HABITAT: APPLICATIONS FOR STOCK ENHANCEMENT AND HABITAT CONSERVATION	FLORIDA	75,000	0	48,280

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-16

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
R/LR-B-47 (12198)	J. AULT Title: RESEARCH AND DEVELOPMENT OF QUANTITATIVE METHODS OF ASSESSING ESSENTIAL FISH HABITAT	FLORIDA	25,000	0	0
R/LR-B-45 (11704)	W. HERRNKIND Title: ESTABLISHING THE IMPORTANCE OF POSTLARVAL SUPPLY TO RECRUITMENT AND MANAGEMENT OF SPINY LOBSTERS IN THE FLORIDA KEYS	FLORIDA	86,520	0	43,260
R/LR-A-24 (11702)	R. FRANCIS-FLOYD Title: ATLANTIC SURGEONFISH AS A MODEL FOR DESCRIPTION OF NORMAL ANATOMY, HISTOLOGY AND NATURAL DIET OF HERBIVOROUS ORNAMENTAL REEF FISH	FLORIDA	26,352	0	15,362
R/LR-B-46 (11705)	T.K. FRAZER Title: REGIONAL PATTERNS OF HABITAT USE BY JUVENILE BLUE CRABS: ASSESSING THE RELATIVE IMPORTANCE OF ALTERNATIVE HABITAT TYPES IN FLORIDA AND NORTH CAROLINA	FLORIDA	51,848	0	26,060
R/FS-1 (11114)	J. O. BLANTON/P. G. VERITY Title: SOURCES AND TRANSPORT MECHANISMS OF WHITE SHRIMP IN SOUTHEASTERN COASTAL WATERS	GEORGIA	137,474	0	76,919

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	4-17 MATCHING
P/AD-5 (12144)	MAC V. RAWSON, JR. Title: VESSEL SUPPORT	GEORGIA	0	32,000	0
(11671)	MAC, RAWSON Title: PROCESS STUDIES OF PHYSICAL-BIOLOGICAL INTERACTIONS AND LARVAL FISH ON GEORGES BANK	GEORGIA	0	60,000	0
UNKNOWN (12184)	SHANNON ATKINSON Title: REPRODUCTION AND DEVELOPMENT IN CAPTIVE ROUGH-TOOTHED AND BOTTLENOSE DOLPHINS	HAWAII	25,000	0	25,000
R/MR-51 (11843)	RICHARD YOUNG Title: PHYLOGENETIC SYSTEMATICS AND CEPHALOPOD BIODIVERSITY	HAWAII	36,700	0	42,386
R/FM-2 (11375)	KIM HOLLAND Title: TIGER SHARK TRACKING II: ARCHIVING TRANSPONDING TRANSMITTERS TO MONITOR LONG-TERM MOVEMENTS	HAWAII	22,426	0	43,243
R/EP-6 (11357)	PIERRE FLAMENT Title: ANALYSIS OF A 5-YEAR SERIES OF SURFACE TEMPERATURE IMAGES AROUND HAWAII	HAWAII	17,133	0	25,603
R/FM-3 (11376)	KIM HOLLAND Title: EVALUATION OF HARVEST REFUGIA II: EFFECTS OF FISHING PRESSURE ON FISH ASSEMBLAGE STRUCTURE AND MOVEMENTS	HAWAII	17,590	0	15,493

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-18

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
R/CF-03-98 (11867)	JOHN JANSSEN Title: RECRUITMENT FAILURE OF YELLOW PERCH IN LAKE MICHIGAN: EVALUATION OF THE STARVATION AND PREDATION HYPOTHESES	ILLINOIS/INDIANA	38,891	0	20,899
R/CFM-2 (12065)	R. SHAW/W. KEITHLY/M. BENFIELD Title: INVESTIGATION OF THE RELATIONSHIP BETWEEN LOUISIANA POSTLARVAL BROWN SHRIMP, PENAEUS AZTECUS, ABUNDANCE, TWO ESTIMATES OF JUVENILE ABUNDANCE, AND THE INSHORE FISHERY LANDINGS IN POUNDS AND NUMBERS	LOUISIANA	57,143	0	28,050
R/FMD-241 (10972)	L. WATLING Title: EFFECTS OF HABITAT ALTERATION ON FISHERY RECRUITMENT PROCESSES	MAINE/NEW HAMPSHIRE	39,832	0	13,371
R/FMD-259 (11282)	I. KORNFIELD Title: MOLECULAR GENETIC ANALYSIS OF CURRENT AND HISTORICAL STOCK STRUCTURE OF NORTHWEST ATLANTIC HADDOCK	MAINE/NEW HAMPSHIRE	58,519	0	23,392
R/GLF-45 (11855)	DAVID J. JUDE Title: RECRUITMENT FAILURE OF YELLOW PERCH IN SE LAKE MICHIGAN: EVALUATION OF THE STARVATION AND PREDATION HYPOTHESES	MICHIGAN	83,508	0	52,728
R/GLF-47 (11853)	DANIEL B. HAYES/MICHAEL JONES Title: PHYSICAL AND BIOLOGICAL PROCESSES INFLUENCING THE RECRUITMENT OF WALLEYE	MICHIGAN	140,540	0	73,783

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-19

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
R/GFL-46 (11854)	JAMES R. BENCE/DANIEL B. HAYES Title: UNDERSTANDING AND MANAGING VARIATION IN THE LAKE MICHIGAN SALMONINE FISHERY	MICHIGAN	139,907	0	70,210
R/LS-7 (11748)	KEWEN YIN Title: ACOUSTICAL MAPPING OF LAKE SUPERIOR ZOOPLANKTON	MINNESOTA	20,310	0	20,162
R/ER-39 (11678)	MARK S. PETERSON Title: RECRUITMENT DYNAMICS AND THE EFFECTS OF ENVIRONMENTAL VARIATION ON EARLY GROWTH AND SURVIVAL OF IMPORTANT ESTUARINE FISHES	MISSISSIPPI/ALABAMA	47,260	0	23,679
R/F-9719 (11351)	ROBERT E. LOVELAND Title: THE RELATIONSHIP OF LIFE HISTORY AND HABITAT SELECTION TO A SUSTAINABLE HORSESHOE CRAB FISHERY IN DELAWARE BAY, NEW JERSEY	NEW JERSEY	43,130	0	23,206
R/COP/96-1P (11190)	D. B. HAIDVOGEL Title: CIRCULATION MODELING FOR THE S.E. BERING SEA; NEW JERSEY COMPONENT.	NEW JERSEY	0	13,501	29,703
R/XG-10 (11723)	ISAAC I. WIRGIN Title: POPULATION GENETICS OF THE FEDERALLY ENDANGERED SHORTRNOSE STURGEON	NEW YORK	61,773	0	39,196

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-20

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
R/FBM-19 (11727)	DAVID O. CONOVER Title: EMPIRICAL SIMULATION OF THE EFFECTS OF SIZE-SELECTIVE NATURAL AND FISHING MORTALITY ON THE EVOLUTION OF GROWTH RATE IN FISH STOCKS	NEW YORK	73,655	0	45,698
R/XG-8 (11728)	ISAAC I. WIRGIN Title: STOCK IDENTIFICATION AND MIXED STOCK ANALYSES OF WINTER FLOUNDER (PLEURONECTES AMERICANUS)	NEW YORK	99,999	0	53,968
R/FBF-11 (11726)	DONALD J. STEWART Title: POPULATION DYNAMICS OF NATURALLY SPAWNING SALMONINES IN LAKE ONTARIO	NEW YORK	66,986	0	44,615
R/MRD-42 (11753)	JAMES A. RICE Title: EFFECTS OF HYPOXIA ON MOVEMENTS, FEEDING, GROWTH RATES AND SURVIVAL OF ESTUARINE FISHES AND BLUE CRABS	NORTH CAROLINA	41,305	0	0
R/ES-44 (11754)	J.M. MILLER/W. NEILL/K. LEBER Title: FIELD TESTS OF AN ECOPHYSIOLOGICAL MODEL OF HABITAT VALUE TO PREDICT PERFORMANCE AND RECRUITMENT OF JUVENILE MARINE FISHES	NORTH CAROLINA	27,033	0	0
R/MRD-41 (11751)	TOM WOLCOTT Title: LARVAL DYNAMICS AND WATER EXCHANGE AT THE ENTRANCE TO NARRAGANSETT BAY	NORTH CAROLINA	16,870	0	7,309
R/MRD-37 (11752)	LARRY CROWDER Title: SPATIAL AND TEMPORAL ENVIRONMENTAL VARIATION IN A EUTROPHIC COASTAL RIVER: IMPACTS ON THE ESTUARINE FISH COMMUNITY	NORTH CAROLINA	7,800	0	37,331

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-21

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
R/MRD-39 (11750)	D. EGGLESTON/L. XIE/R. LIPCIUS Title: POPULATION DYNAMICS OF THE BLUE CRAB IN NORTH CAROLINA: AN INTEGRATED MODELING, RESEARCH AND EDUCATIONAL APPROACH	NORTH CAROLINA	44,358	0	0
R/LR-4 (11923)	CAROL A. STEPIEN Title: GENETIC CHARACTERIZATION OF WALLEYE STOCKS BASED ON MITOCHONDRIAL AND NUCLEAR DNA SEQUENCES	OHIO	0	0	0
R/A-10 (11925)	RICHARD A. LONDRVILLE Title: DEVELOPMENT OF A NON-DESTRUCTIVE MOLECULAR PROBE FOR WHOLE-BODY FAT STORES IN LARGEMOUTH BASS	OHIO	45,031	0	38,920
R/RCF-02 (11812)	DAVID B. SAMPSON Title: DETERMINANTS OF FISHING STRATEGIES: AN EMPIRICAL STUDY USING TRAWL LOGBOOKS	OREGON	48,992	0	24,590
R/RCF-01 (11811)	STEVEN A. BERKELEY Title: RECRUITMENT VARIABILITY IN BLACK ROCKFISH (SEBASTES MELANOPS) POTENTIAL EFFECTS OF ADULT AGE ON OFFSPRING SURVIVAL	OREGON	90,173	0	2,651
R/ECO-05 (11821)	HIRAM LI Title: DEVELOPMENT OF ORNITHINE DECARBOXYLASE AS A MEASURE OF RECENT GROWTH IN PACIFIC SALMONIDS	OREGON	40,465	0	20,160

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-22

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
R-31-2-98 (12009)	JAMES P. BEETS Title: SOME MECHANISMS OF FISHERIES ENHANCEMENT IN MARINE FISHERIES RESERVES (MFRS): INTERACTION BETWEEN CORAL REEFS AND SEAGRASSES	PUERTO RICO	30,323	0	11,839
R-31-3-98 (12011)	JOSHUA SLADEK NOWLIS Title: THE POTENTIAL EFFECTIVENESS AND OPTIMAL DESIGN OF A MARINE FISHERY RESERVE IN LAMSHUR BAY, ST JOHN, U.S. VIRGIN ISLANDS	PUERTO RICO	12,521	0	6,271
R-31-1-98 (11978)	RICHARD S. APPELDOORN Title: DEVELOPMENT AND VALIDATION OF DESIGN CRITERIA FOR MARINE FISHERY RESERVES	PUERTO RICO	60,390	0	53,208
R/F-935 (10340)	WILLIAM K.MACY Title: FEEDING BEHAVIOR AND GUT EVAUCATION RATE IN ATLANTIC MACKEREL AND ATLANTIC HERRING	RHODE ISLAND	0	48,872	0
R/F-961 (12163)	LAWRENCE BUCKLEY Title: U.S. GLOBEC: DISPERSIVE AND ADVECTIVE INFLUENCES ON THE SURVIVAL OF COD AND HADDOCK ON GEORGES BANK	RHODE ISLAND	0	62,395	0
R/EE-981 (11989)	COLLIE, JEREMY Title: LARVAL DYNAMICS AND WATER MASS EXCHANGE AT THE ENTRANCE TO NARRAGANSETT BAY	RHODE ISLAND	88,274	0	59,425
R/EP-981 (11991)	KINCAID, CHRISTOPHER R. Title: CIRCULATION AND EXCHANGE AT THE ENTRANCE TO NARRAGANSETT BAY	RHODE ISLAND	87,822	0	104,055

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-23

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
R/CO-3 (11935)	E. L. WENNER/C. A. BARNES Title: TRANSPORT MECHANISMS AND ESTUARY/TIDAL CREEK EXCHANGES OF WHITE SHRIMP IN CONTRASTING HIGH AND LOW DISCHARGE SOUTHEASTERN ESTUARIES	SOUTH CAROLINA	76,000	0	32,400
R/F-71 (12028)	JOAN G. HOLT Title: THE INFLUENCE OF SALINITY ON REPRODUCTION, EGG AND LARVAL DEVELOPMENT OF SPOTTED SEATROUT (CYNOSCION NEBULOSUS)	TEXAS	38,732	0	19,366
R/F-72 (12026)	A. LANDRY/E. STABENAU Title: RECRUITMENT AND POPULATION STATUS OF KEMP'S RIDLEY SEA TURTLES IN NEARSHORE GULF WATERS	TEXAS	79,999	0	33,939
R/F-68 (11339)	G.A. JACKSON/D.A. BROOKS Title: SIMULATION OF LARVAL TRANSPORT FROM THE TEXAS COASTAL OCEAN TO A BAY	TEXAS	46,971	0	18,857
R/ES-72 (11318)	TERRY WHITLEDGE Title: INVESTIGATION OF THE ORIGIN AND DYNAMICS OF NUTRIENTS ON THE SOUTHEAST BERING SEA SHELF IN RELATION TO DOMINANT PHYSICAL AND BIOLOGICAL PROCESSES	TEXAS	0	59,560	0
R/F-70 (12027)	SCOTT A. HOLT/JOAN G. HOLT Title: THE ROLE OF WATER LEVEL FLUCTUATIONS IN RECRUITMENT OF RED DRUM LARVAE: STABLE ISOTOPES AS TRACERS	TEXAS	76,808	0	36,814
R/CO-2 (11290)	ARNOLD VALLE-LEVINSON Title: PHYSICAL EXCHANGE PROCESSES AT THE CHESAPEAKE BAY MOUTH	VIRGINIA	54,961	0	38,875

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-24

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
R/CF-35 (11293)	SIMON R. THORROLD Title: APPLICATION OF OTOLITH ELEMENTAL FINGERPRINTING AND MICROSATELLITE DNA MARKERS AS NATURAL TAGS OF YOUNG-OF-THE-YEAR WEAKFISH (CYNOSCION REGALIS ALONG THE ATLANTIC COAST	VIRGINA	59,920	0	35,503
R/CF-34 (11292)	R. N. LIPCIUS Title: SOURCES AND SINKS FOR THE BLUE CRAB STOCK: LINKAGES BETWEEN TRANSPORT, DISPERSAL, HABITAT FEATURES AND YEAR-CLASS STRENGTH	VIRGINA	66,342	0	33,867
R/C0-1 (11291)	GLEN H. WHELESS Title: PHYSICAL PROCESSES IN THE CHESAPEAKE BAY MOUTH AND THEIR RELATIONSHIPS TO BIOLOGICAL RECRUITMENT	VIRGINA	28,345	0	16,406
R/F-134 (12182)	UNIVERSITY OF WASHINGTON Title: THE TIMING OF ADULT SOCKEYE SALMON MIGRATIONS	WASHINGTON	22,016	0	38,567
R/NP-3 (11779)	PAUL BENTZEN/KEVIN M. BAILEY Title: HIGH RESOLUTION ANALYSIS OF WALLEYE POLLOCK STOCK STRUCTURE USING MICROSATELLITE DNA MARKERS	WASHINGTON	44,500	0	40,357
R/F-122 (11168)	GORDON L. SWARTZMAN Title: HIGH RESOLUTION ACOUSTIC AND JUVENILE POLLOCK RETROSPECTIVE DATA ANALYSIS	WASHINGTON	0	58,112	0

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-25

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
R/NP-3 (11779)	PAUL BENTZEN Title: HIGH RESOLUTION ANALYSIS OF WALLEYE POLLOCK STOCK STRUCTURE USING MICROSATELLITE DNA MARKERS	WASHINGTON	0	20,000	0
R/FO-10 (11265)	ROBERT C. FRANCIS Title: HABITAT DIFFERENCES IN FRONTAL REGIONS AROUND THE PRIBILOF ISLANDS AND THEIR IMPORTANCE TO JUVENILE POLLOCK GROWTH AND SURVIVAL IN THE BERINE SEA	WASHINGTON	0	29,011	0
R/R-1 (11611)	AMSTRONG/FRANCIS/FRANCIS/GUNDERSON Title: PNCERS; NATURAL AND ANTHROPOGENIC VARIABILITY IN NORTHEASTERN PACIFIC COASTAL SYSTEMS	WASHINGTON	0	1,042,878	0
R/F-128 (11778)	ROBERT C. FRANCIS Title: NATURAL SCALES OF VARIABILITY IN COASTAL MARINE ECOSYSTEMS OF THE NORTHEAST PACIFIC OCEAN	WASHINGTON	59,800	0	28,057
R/LR-76 (11876)	RUTH B. PHILLIPS Title: APPLICATION OF MICROSATELLITE AND MHC MARKERS TO STOCK IDENTIFICATION IN LAKE SUPERIOR LAKE TROUT	WISCONSIN	57,906	0	56,286
R/LR-77 (11892)	MICHAEL J. HANSEN Title: CAUSES AND IMPEDIMENTS OF LAKE TROUT RECOVERY IN LAKE SUPERIOR	WISCONSIN	39,564	0	0
R/LR-78 (11895)	JAMES F. KITCHELL/DORAN M. MASON Title: FISHERIES AND FOOD WEB DYNAMICS IN LAKE SUPERIOR	WISCONSIN	42,512	0	36,575

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-26

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
R/EC-5 (11896)	FRED P. BINKOWSKI/CLIFFORD E. KRAFT Title: RECRUITMENT DECLINE OF YELLOW PERCH IN GREEN BAY, LAKE MICHIGAN: EVALUATION OF ENVIRONMENTAL INFLUENCES AND PREDATION	WISCONSIN	54,975	0	21,081
R/LR-75 (12035)	FRED BINKOWSKI Title: RECRUITMENT MECHANISMS IN YELLOW PERCH (PERCA FLAVESCENS): INTERACTIONS AMONG GROWTH CONDITION AND PREDATION	WISCONSIN	60,938	0	67,805
R/B-141 (11392)	R.T. HANLON Title: REPRODUCTIVE STRATEGIES & THEIR CONTRIBUTION TO GENETIC DIVERSITY & LIFE CYCLE FLEXIBILITY IN THE COMMERCIALY IMPORTANT SQUID, LOLIGO PEALEI	WOOD HOLE OCEANOGRAPHIC INST.	51,908	0	28,444
R/B-143 (11393)	L. P. MADIN Title: PREDATORY IMPACT OF LOBATE CTENOPHORES ON COMMERCIALY IMPORTANT FISHES AND THEIR PREY	WOOD HOLE OCEANOGRAPHIC INST.	37,303	0	21,102
R/B-142 (11394)	L. S. MULLINEAUX Title: BEHAVIORAL & HYDRODYNAMIC COMPONENTS OF POSTLARVAL BIVALVE TRANSPORT WITHIN COASTAL EMBAYMENTS	WOOD HOLE OCEANOGRAPHIC INST.	46,973	0	27,086
Number of Projects: <u>89</u>		Subtotal:	<u>3,816,734</u>	<u>1,467,316</u>	<u>2,334,385</u>

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-27

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
Category: 32 - ANTICIPATING SOCIAL AND ECONOMIC IMPACTS					
R/14-17 (11398)	K. CRIDDLE/M. HERRMANN/S.T.LEE Title: THE KENAI PENINSULA PACIFIC HALIBUT SPORT FISHERY	ALASKA	7,158	0	38,423
R/32-01 (11888)	KEITH R. CRIDDLE/S. TODD LEE Title: COPPER RIVER BASIN PERSONAL-USE AND SUBSISTENCE SALMON FISHERIES	ALASKA	29,771	0	16,458
R/MA-39 (11966)	CAROLINE POMEROY Title: SOCIO-ECONOMIC ORGANICATION OF THE CALIFORNIA MARKET SQUID FISHERY: ASSESSMENT FOR OPTIMAL RESOURCE MANAGEMENT	CALIFORNIA	41,447	0	21,582
R/P-7 (11313)	LEE G. ANDERSON Title: ECONOMIC ANALYSIS OF VESSEL BUY-BACK PROGRAMS	DELAWARE	4,521	0	34,120
R/LR-A-23 (11701)	D. J. LEE Title: STRUCTURE AND COMPETITIVENESS OF FLORIDA'S TROPICAL ORNAMENTAL MARINE SPECIES INDUSTRY	FLORIDA	44,970	0	28,420
R/LR-E-18 (11706)	W. MILON Title: BIOLOGICAL AND ECONOMIC MODELING AND ASSESSMENT OF LIMITED ENTRY STRATEGIES IN MULTI-SPECIES FISHERIES IN SOUTH FLORIDA	FLORIDA	94,939	0	60,205

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-28

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
R/FS-3 (11836)	BENJAMIN BLOUNT Title: AFRICAN-AMERICAN PARTICIPATION IN GEORGIA MARINE FISHERIES	GEORGIA	40,944	0	27,377
R/FMD-255 (11280)	JAMES ACHESON/RALPH TOWNSEND Title: CASE STUDIES IN CO-MANAGEMENT OF MARINE FISHERIES	MAINE/NEW HAMPSHIRE	82,649	0	41,970
R/LR-42 (11681)	STEPHEN A. WATTS Title: ASSESSMENT OF SEA URCHINS AS FISHERY AND AQUACULTURE CANDIDATES IN THE GULF OF MEXICO (MASGC COMPONENT)	MISSISSIPPI/ALABAMA	49,928	0	39,014
A/EC-05 (11817)	FLAXEN D. L. CONWAY Title: STRENGTHENING COMMUNITY-OF-INTEREST NETWORKS TO EXTEND EDUCATION TO REGIONAL COMMUNITIES OF PLACE	OREGON	60,143	0	22,379
R/RCF-03 (11813)	GILBERT SYLVIA Title: DEVELOPING A BIOECONOMIC MODEL OF THE OREGON OCEAN SHRIMP FISHERY: AN INTEGRATED MARKETING - MANAGEMENT APPROACH	OREGON	62,594	0	33,354
R/SS-981 (11999)	SUTINEN, JON Title: SUSTAINING MARINE ECOSYSTEMS: THE HUMAN DIMENSION	RHODE ISLAND	97,081	0	67,425
R/ECN-981 (11997)	WESSELLS, CATHY R. Title: ASSESSMENT OF THE EFFECTIVENESS OF ECO-LABELING AS A MARKET-BASED APPROACH TO SUSTAINABLE SEAFOOD PRODUCTION	RHODE ISLAND	82,585	0	17,112

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-29

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
A/EP-3 (11672)	JON LUCY Title: CATCH AND RELEASE FISHING IN MARINE RECREATIONAL FISHERIES: ASSESSING OUTREACH, RESEARCH AND MANAGEMENT ISSUES IN REBUILDING COASTAL FISHERIES -- A NATIONAL SYMPOSIUM	VIRGINA	50,256	0	25,465
A/EP-2 (11287)	J. VAN MONTFRANS Title: BRINGING BLUE CRAB ECOLOGY AND ISSUES TO THE PUBLIC: OUTREACH THROUGH A MULTI-MEDIA APPROACH	VIRGINA	22,720	0	11,635
R/PS-52 (11897)	WILLIAM R. PROVENCHER/RICHARD C. BISHOP Title: INTERSEASONAL COMPARISONS OF STATIC AND DYNAMIC ECONOMIC MODELS OF RECREATIONAL SALMONID FISHING ON LAKE MICHIGAN	WISCONSIN	53,974	0	10,921
R/PS-51 (11878)	RICHARD C. BISHOP Title: SUSTAINABILITY, UNCERTAINTY AND THE MANAGEMENT OF THE LAKE SUPERIOR FISHERIES	WISCONSIN	19,657	0	4,579
Number of Projects: 17			Subtotal: 845,337	0	500,439

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-30

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
Category: 33 - MINIMIZING BYCATCH					
E/70-91	PAULA J. CULLENBERG	ALASKA	0	388,900	0
(10510)	Title: CONTINUATION OF UNIVERSITY-BASED MARINE RESOURCE OBSERVER TRAINING				
O/MAS-1	KEITH W. GATES	GEORGIA	0	50,000	0
(12161)	Title: BYCATCH REDUCTION DEVICE (BRD) EXCLUSION MORTALITY; DIVER AND REMOTE CAMERA STUDIES				
R/F-131	J. K. PARRISH/C. W. THOMPSON	WASHINGTON	89,100	0	59,527
(11780)	Title: LINKING DISPERSAL TO PRODUCTIVITY: COMMON MURRES AND GILLNET FISHERIES				
Number of Projects: 3		<u>Subtotal:</u>	<u>89,100</u>	<u>438,900</u>	<u>59,527</u>

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-31

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
Category: 34 - ENHANCING WILD STOCKS THROUGH AQUACULTURE					
R/O2-18 (10982)	A.J. GHARRETT/W.W. SMOKER Title: CONSERVING SALMON BIODIVERSITY: OUTBREEDING DEPRESSION IN PINK SALMON	ALASKA	62,768	0	13,242
R/AQ98169 (12117)	JOHN M. MILLER Title: INTRODUCTION OF CULTURED FLOUNDER AND RED DRUM OF NATURAL COASTAL SYSTEMS - STATUS, CONSIDERATION AND ASSESSMENTS	INDEPENDENT/OTHER	9,855	0	0
R/A-12 (11741)	ANNE R. KAPUSCINSKI Title: GENETIC EFFECTS OF HATCHERY RAINBOW TROUT ON NATURALIZED STEELHEAD POPULATIONS BASED ON DIAGNOSTIC DNA MARKERS	MINNESOTA	0	0	30,000
R/A-76 (11781)	W.K. HERSHBERGER/P. BENTZEN Title: GEODUCK GENETIC STUDIES	WASHINGTON	105,400	0	44,339
Number of Projects:		<u>Subtotal:</u>	<u>178,023</u>	<u>0</u>	<u>87,581</u>

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-32

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
Category: 41 - ADMINISTRATION AND COORDINATION					
RUCH#9543 (12166)	CHENG-SHENG LEE Title: AQUACULTURE INTERCHANGE PROGRAM (YEAR 7)	HAWAII	0	274,023	0
ES/1 (12134)	LEON WEISS Title: ECONOMIC SURVEY OF AQUACULTURE IN UNITED STATES	INDEPENDENT/OTHER	42,024	0	166,420
R/AQ-97060 (11481)	LAWRENCE W. ROWLAND 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	INDEPENDENT/OTHER	30,516	0	0
UNKNOWN (12125)	JOHN SUPAN Title: IMPLEMENTATION OF THE GULF OYSTER INDUSTRY INITIATIVE	LOUISIANA	104,391	0	19,930
R/FMD-142 (11805)	A. C. MATHIESON Title: FIELD COLLECTION FOR JOINT PORPHYRA CULTIVATION PROJECT	MAINE/NEW HAMPSHIRE	18,046	0	16,196
A-18 (12105)	GOUDEY/COHEN/SOARES/CONNERS Title: AQUACULTURE PERMITTING GUIDELINES FOR MASSACHUSETTS	MASSACHUSETTS	45,000	0	22,500
A/AS-39 (11913)	FRED P. BINKOWSKI Title: WATERS - WISCONSIN'S AQUACULTURE TECHNOLOGY EDUCATION AND RESEARCH SERVICES	WISCONSIN	39,949	0	40,090

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-33

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
R/A-40 (12089)	P. HOAGLAND,J.DI, H.KITE-POWEL Title: UNDERSTANDING THE POTENTIAL OF OFFSHORE MARINE AQUACULTURE: A BIOECONOMIC APPROACH	WOOD HOLE OCEANOGRAPHIC INST.	49,917	0	26,133
Number of Projects: 8			<u>Subtotal:</u>	<u>329,843</u>	<u>274,023</u>
					<u>291,269</u>

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-34

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
Category: 42 - DEVELOPING AND IMPROVING GROW-OUT SYSTEMS					
R/AQ-60 (11893)	CENGIZ R. ERTEKIN Title: MOLOKAI FISHPONDS: CIRCULATION STUDIES	HAWAII	52,538	0	0
R/AQ-61 (11358)	CLYDE S. TAMARU Title: ASSESSMENT AND CHARACTERIZATION OF WATER QUALITY IN TRADITIONAL HAWAIIAN FISHPONDS	HAWAII	22,218	0	0
R/AQ-58 (11359)	CHRISTOPHER L. BROWN Title: COST-EFFECTIVE METHODS FOR REEF FISH CULTURE	HAWAII	26,520	0	15,401
R/AQ98020 (12123)	BRIAN BEAL Title: CREATING A SUSTAINABLE SOFT-SHELL CLAM FISHERY IN MAINE: A COMMUNITY CLAM CULTURE PROGRAM	INDEPENDENT/OTHER	100,000	0	0
(12585)	RUSSELL A. ALLEN Title: EVALUATION OF A PROTOTYPE WATER REUSE SYSTEM FOR INDOOR PRODUCTION OF MARINE SHRIMP	INDEPENDENT/OTHER	48,285	0	0
R/AQ9-97098 (11479)	THOMAS B. MCCORMICK Title: DEVELOPMENT OF WHITE SEABASS FARMING IN SOUTHERN CALIFORNIA	INDEPENDENT/OTHER	60,000	0	0

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-35

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
R/AQ-97053 (11478)	KELLY A. RUSCH Title: DESIGN AND EVALUATION OF A COMMERCIAL SCALE HYDRAULICALLY INTEGRATED SERIAL TURBIDOSTAT ALGAL REACTOR (HISTAR)	INDEPENDENT/OTHER	123,012	0	0
R/MT98007 (12118)	EDWARD GLENN Title: MOLIKAI LIMU PROJECT: SEALING TO FULL PRODUCTION THROUGH MARKET DEVELOPMENT, AND EXPANSION OF REEF PLANTINGS AND COMMUNITY PARTICIPATION	INDEPENDENT/OTHER	70,000	0	0
R/A-51 (12068)	KELLY RUSCH/RONALD MALONE Title: IMPACT OF DECLINING SPECIFIC GROWTH RATE ON MICROALGAL PRODUCTION: DETERMINATION OF CONTROLLING FACTORS AND THE DESIGN IMPLICATIONS FOR THE HYDRAULICALLY INTEGRATED SERIAL TURBIDOSTAT ALGAL REACTOR (HISTAR)	LOUISIANA	64,799	0	20,942
R/A-50 (12067)	RONALD F. MALONE Title: IMPACT OF INTERSTIAL TURBULENCE INDUCED BY POROSITY AND FLUXRATE VARIATIONS ON THE BIOFILTRATION PERFORMANCE OF FLOATING BEAD FILTERS	LOUISIANA	67,043	0	14,600
R/FMD-146 (11278)	C.W. WALKER/M. LESSER Title: DEVELOPING A SECOND, HIGH QUALITY CROP FOR THE NORTHEASTERN GREEN SEA URCHIN USING LAND-BASED AQUACULTURE	MAINE/NEW HAMPSHIRE	76,341	0	25,088
R/FMD-261 (11283)	R.L. VEDAS/W. WRIGHT Title: IMPACTS OF ROCKWEED HARVESTING	MAINE/NEW HAMPSHIRE	37,794	0	17,035

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-36

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
R/FMD-144 (11277)	STEPHEN H. JONES Title: MICROBIOLOGICAL OPTIMIZATION OF SUMMER FLOUNDER CULTURE IN A RECIRCULATING AQUACULTURE SYSTEM	MAINE/NEW HAMPSHIRE	65,499	0	22,796
R/FMD-508 (11670)	ANN BUCKLIN Title: OPEN OCEAN AQUACULTURE DEMONSTRATION PROJECT.	MAINE/NEW HAMPSHIRE	0	300,000	0
(11670)	ANN BUCKLIN/H.HOWELL/B. CELIKKOL/R. BARNABY Title: OPEN OCEAN AQUACULTURE DEMONSTRATION PROJECT.	MAINE/NEW HAMPSHIRE	0	1,615,000	0
A-02 (11093)	CLIFFORD A. GOUDEY Title: CENTER FOR FISHERIES ENGINEERING	MASSACHUSETTS	72,800	0	36,400
RD-4 (12103)	WALTER PAUL/M. GROSENBAUGH Title: SUBMERGED COASTAL OFFSHORE MUSSEL AQUACULTURE SYSTEM: A MULTI- DISCIPLINARY APPROACH	MASSACHUSETTS	37,500	0	25,000
UNKNOWN (12181)	JOHN M. KUBARYK Title: DEMONSTRATING THE FEASIBILITY OF PRODUCING USABLE FISH OIL AND FISH MEAL FROM ENSILAGED TUNA SLUDGE FOR AQUACULTURE	PUERTO RICO	30,000	0	35,000

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-37

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
R/F-981 (11998)	BENGSTON, DAVID Title: ENHANCING PRODUCTION OF FLOUNDER FINGERLINGS	RHODE ISLAND	80,000	0	47,425
R/M-62 (12024)	D.ALLEN DAVIS/CONNIE R. ARNOLD Title: NUTRITION STRATEGIES FOR THE REDUCTION OF MARICULTURE WASTE PRODUCTION	TEXAS	73,779	0	36,889
R/M-63 (12023)	D.M. GATLIN/M.D. MATLOCK Title: NUTRITIONAL AND ENVIRONMENTAL MANIPULATIONS TO REDUCE WASTES IN MARICULTURE	TEXAS	40,552	0	32,864
R/OD-98-04 (12142)	STANDISH K. ALLEN Title: HATCHERY AND FIELD REARING OF PEDIGREED FAMILIES	VIRGINA	25,257	0	14,398
R/A-29 (11289)	A.M. DIETRICH/D.L. GALLAGHER Title: INVESTIGATION OF TOXICITY TO SHELLFISH IN AQUACULTURE FACILITIES ON THE EASTERN SHORE OF VIRGINIA FROM WATER QUALITY AND HYDROLOGICAL IMPACTS	VIRGINA	69,999	0	35,161
Number of Projects: <u>23</u>		<u>Subtotal:</u>	<u>1,243,936</u>	<u>1,915,000</u>	<u>378,999</u>

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-38

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
Category: 43 - IMPROVING HUSBANDRY					
R/A-109 (11948)	BERNIE P. MAY Title: PRESERVATION OF GENETIC VARIATION WITHIN AQUACULTURAL STOCKS OF THE WHITE STURGEON	CALIFORNIA	28,499	0	27,860
R/F-11 (11573)	PATRICK M. GAFFNEY Title: PHYSIOLOGICAL AND GENETIC CORRELATES OF DERMAL DISEASE RESISTANCE IN THE EASTERN OYSTER: AN INTERDISCIPLINARY APPROACH	DELAWARE	82,568	0	0
R/LR-A-22 (11700)	N. MARCUS Title: CULTURE TECHNIQUES FOR MARINE ORNAMENTAL AND CONSUMABLE FISH: A BETTER LARVAL DIET?	FLORIDA	33,103	0	17,053
R/LR-A-21 (11699)	J.M. LAWRENCE Title: ASSESSMENT OF SEA URCHINS AS AQUACULTURE CANDIDATES IN THE GULF OF MEXICO	FLORIDA	12,282	0	11,152
(11571)	DANIEL P. CHENEY Title: MORTALITY OF THE PACIFIC OYSTER, CRASSOSTREA GIGAS: HEALTH SCREENING, ENVIRONMENTAL LINKS AND MANAGEMENT OPTIONS	INDEPENDENT/OTHER	289,910	0	145,055
(12584)	JAMES WYBAN Title: HYBRIDIZATION OF MARINE SHRIMP FOR SUPERIOR COMMERCIAL PERFORMANCE	INDEPENDENT/OTHER	50,000	0	0

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-39

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
(12583)	Title: DOUGLAS DRENNAN CONTINUOUS CULTURE ZOOP ANKTON SYSTEM FOR MARINE AQUACULTURE FEED PRODUCTION	INDEPENDENT/OTHER	48,937	0	0
R/ODR-2 (11662)	Title: R.COOPER/J. LAPEYRE/T.TIERSCH COMBINE USE OF A LYTIC PEPTIDE AND A PROTEASE INHIBITOR: A NOVEL APPROACH TO ELIMINATE PERKINSUS MARINUS IN EASTERN OYSTERS	LOUISIANA	100,987	0	51,537
R/GOI-7 (12186)	Title: RICHARD WALLACE OPTIMUM SIZE FOR PLANTING HATCHERY PRODUCED OYSTER SEED	LOUISIANA	71,355	0	35,015
R/GOI-09 (12187)	Title: SAMMY RAY PREDICTING TIME TO CRITICAL LEVELS OF THE OYSTER DISEASE, PERKINSUS MARINUS: A NEW TOOL FOR INCREASING OYSTER PRODUCTION	LOUISIANA	117,083	0	54,730
R/FMD-243 (10974)	Title: B. BARBER IMPACTS OF THE PARASITE BONAMIA OSTREAE ON THE EUROPEAN OYSTER AND STRATEGIES FOR COMMERCIAL CULTURE	MAINE/NEW HAMPSHIRE	35,933	0	21,435
R/ODR-9 (11574)	Title: ROBERT S. ANDERSON COMPARATIVE PATHOGENESIS OF P. MARINUS DISEASE IN BIVALVES: DEVELOPMENT OF PREVENTION STRATEGIES FOR C. VIRGINICA	MARYLAND	86,256	0	45,302

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-40

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
R/ODR-12 (11577)	GERARDO R. VASTA Title: TAXONOMIC AND GENETIC CHARACTERIZATION OF PERKINSUS MARINUS. DEVELOPMENT OF MUTAGENESIS AND GENE TRANSFER SYSTEMS WITH APPLICATION TO THERAPEUTIC STRATEGIES	MARYLAND	121,701	0	49,666
R/ODR-13 (11578)	MICHAEL W. FINCHMAN Title: VIDEO DOCUMENTARY ON THE RISE, FALL AND RESTORATION OF THE OYSTER FISHERY IN CHESAPEAKE BAY	MARYLAND	17,530	0	14,653
R/ODR-14 (11579)	K. T. PAYNTER/H. LENIHAN Title: EXAMINING THE ECOLOGICAL PHYSIOLOGY OF OYSTERS ON A REEF HABITAT: INTERACTIONS OF DISSOLVED OXYGEN AND DISEASE DYNAMICS	MARYLAND	58,773	0	39,182
R/ODR-05 (11580)	S. JORDAN/G. SMITH Title: DEVELOPMENT AND MANAGEMENT APPLICATIONS OF A DUAL-DISEASE (MSX AND DERMO) MODEL FOR CHESAPEAKE BAY OYSTER POPULATIONS	MARYLAND	27,278	0	26,374
R/ODR-11 (11576)	DR. GERADO R. VASTA Title: A MOLECULAR APPROACH TO ENVIRONMENT STUDIES ON PERKINSUS MARINUS. TRANSMISSION DYNAMICS OF INFECTION IN CHESAPEAKE BAY	MARYLAND	129,629	0	49,666
R/ODR-10 (11575)	CHRISTOPHER F. DUNGAN Title: MONOCLONAL ANTIBODY ELISA ASSAY FOR DETECTION OF PERKINSUS MARINUS IN OYSTER TISSUES	MARYLAND	61,840	0	39,365

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-41

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
R/F-88 (11691)	THADDEUS K. GRACZYK Title: SUSCEPTIBILITY OF CHESAPEAKE BAY TO ENVIRONMENTAL CONTAMINATION WITH CRYPTOSPORIDIUM PARVUM: RECOVERY OF THE PATHOGEN BY EASTERN OYSTERS	MARYLAND	60,760	0	33,283
RD-3 (12106)	JEROME H. MILGRAM Title: COMPUTATIONAL ANALYSIS OF IN-SITU HOLOGRAMS OF MARINE MICRO-ORGANISMS	MASSACHUSETTS	75,000	0	37,500
R/LR-37 (11210)	DAVID B. ROUSE/WILLIAM HOSKING Title: COASTAL ALABAMA SEAFOOD HARVEST -PHASE II	MISSISSIPPI/ALABAMA	0	330,000	0
B/T-9801 (11828)	DR. XIMING GUO/STANDISH K. ALLEN, JR. Title: MOLECULAR CHARACTERIZATION OF AMERICAN OYSTER CHROMOSOMES BY FLUORESCENCE IN SITU HYBRIDIZATION	NEW JERSEY	93,258	0	43,293
R/ATD-9 (11729)	MICHAEL B. TIMMONS Title: WALLEYE RESTOCKING AND PRODUCTION BY USING INDOOR SYSTEMS	NEW YORK	55,074	0	51,554
R/AF-35 (11756)	DANIELS/HODSON/GALLAGHER Title: AQUACULTURE OF SOUTHERN FLOUNDER: LARVICULTURE AND GROWOUT	NORTH CAROLINA	64,640	0	3,771
R/MBT-3 (11759)	CRAIG V. SULLIVAN Title: VITELLOGENIN AND ITS RECEPTOR: A UNIVERSAL SYSTEM FOR DELIVERY OF DRUGS OR GENES ACROSS GENERATIONS	NORTH CAROLINA	99,899	0	67,976

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-42

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
R/AF-36 (11757)	HODSON/SULLIVAN/WEBER Title: REPRODUCTION OF STRIPED BASS: THERMAL CONTROL OF SPAWNING AND EGG QUALITY	NORTH CAROLINA	62,054	0	2,505
R/AF-34 (11755)	CRAIG V. SULLIVAN Title: EGG QUALITY IN SOUTHERN FLOUNDER	NORTH CAROLINA	51,322	0	0
R/BT-31 (11810)	JERRI L. BATHOLOMEW Title: IDENTIFICATION OF GENETICALLY-BASED PROTECTIVE RESPONSES AGAINST INFECTION BY THE MYXOSPOREAN PARASITE, CERATOMYXA SHASTA	OREGON	76,817	0	27,776
R/ER-14 (11074)	L.E. BURNETT Title: ENVIRONMENTAL HYPOXIA AND CO2 INFLUENCE THE PROPAGATION, THE PHYSIOLOGY, AND THE BIOCHEMISTRY OF INFECTIONS OF PERKINSUS MARINUS IN OYSTERS	SOUTH CAROLINA	58,992	0	51,894
R/OD-1 (11605)	D.BUSHEK/R.DAME Title: THE INFLUENCE OF ECOLOGICAL PROCESSES ON TRANSMISSION OF PERKINSUS MARINUS: DISPERSAL DILUTION AND HOST FILTRATION	SOUTH CAROLINA	58,725	0	30,147
R/A-30 (11940)	T.J. SMITH/W.E. JENKINS Title: DEVELOPMENT OF AQUACULTURE TECHNIQUES FOR SOUTHERN FLOUNDER: PHASE I - SPAWNING AND NURSERY TECHNIQUES	SOUTH CAROLINA	80,000	0	40,820

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-43

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
ROD-2 (11558)	D. BUSHEK/K. REECE/J. GRAVES Title: MOLECULAR GENETIC ANALYSIS OF PERKINSUS MARINUS: COMPARISONS AMONG LABORATORY ISOLATES AND NATURAL POPULATIONS	SOUTH CAROLINA	95,782	0	47,925
R/OD-98-2 (11559)	P. GAFFNEY Title: PHYSIOLOGICAL AND GENETIC CORRELATES OF DERMO DISEASE RESISTANCE IN THE EASTERN OYSTER: AN INTERDISCIPLINARY APPROACH	VIRGINA	52,533	0	26,766
ODRP/PD-1 (11673)	WILLIAM L. RICKARDS Title: OYSTER DISEASE RESEARCH PROGRAM: NEW INITIATIVES	VIRGINA	40,000	0	0
R/OD-98-05 (12143)	STANDISH K. ALLEN Title: BROOD STOCK MANAGEMENT OF DISEASE RESISTANT STOCKS IN THE HATCHERY	VIRGINA	31,976	0	16,714
R/OD-98-1 (11560)	M. FAISAL/S.L. KAATTARI Title: EXTRACELLULAR PROTEINS FROM PERKINSUS MARINUS: ANALYSIS OF PATHOGENIC MECHANISMS AND DEVELOPMENT OF ENHANCED DIAGNOSTICS	VIRGINA	175,180	0	87,590
R/OD-98-3 (11561)	E. HOFMANN Title: DEVELOPMENT AND MANAGEMENT APPLICATIONS OF A DUAL-DISEASE (MSX AND DERMO) MODEL FOR CHESAPEAKE BAY OYSTER POPULATIONS	VIRGINA	22,794	0	28,587
OD/PD-98-01 (12141)	WILLIAM RICKARDS Title: OYSTER DISEASE RESEARCH PROGRAM: SUPPLEMENT	VIRGINA	16,714	0	0

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-44

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
R/A-77 (11782)	K. M. BYRNE/L. A. FORD Title: COLDWATER DISEASE: PATHOGENESIS OF CYTOPHAGA PSYCHROPHILA FOR AQUACULTURE SPECIES	WASHINGTON	27,700	0	18,219
R/A-39 (12093)	R. SMOLOWITZ/D. LEAVITT Title: LABORATORY BASED TRANSMISSION OF THE QPX PARASITE IN CULTURED HARD CLAMS AND STUDIES ON THE PROGRESSION OF THE DISEASE	WOOD HOLE OCEANOGRAPHIC INST.	71,165	0	35,490
Number of Projects: 40			Subtotal: 2,744,049	330,000	1,279,855

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-45

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
Category: 44 - ENHANCING AQUACULTURE THROUGH BIOTECHNOLOGY					
R/A-108 (11965)	SERGE I. DOROSHOV Title: ENHANCING SPAWNING PERFORMANCE OF WHITE STURGEON	CALIFORNIA	18,232	0	39,990
R/A-108 (11964)	MARK J. SNYDER Title: BIOTECHNOLOGICAL TECHNIQUES TO IMPROVE CRUSTACEAN AQUACULTURE	CALIFORNIA	50,922	0	37,815
R/A-105 (11947)	DENNIS A. POWERS Title: GENETIC ENGINEERING OF FISH WITH HEMOGLOBINS THAT FACILITATE SURVIVAL UNDER OXYGEN DEPLETED ENVIRONMENTS	CALIFORNIA	55,272	0	38,803
R/CZ-152 (11968)	RICHARD K. ZIMMER-FAUST Title: IDENTIFICATION OF NATURAL AND SYNTHETIC PEPTIDES FOR CONTROLLING MARINE LARVAL SET	CALIFORNIA	91,768	0	44,480
R/A-21 (11848)	HANS LAUFER Title: ENDOCRINOLOGY OF SHRIMP REPRODUCTION, MATURATION AND SPAWNING	CONNECTICUT	5,600	0	0
(11881)	HANS LAUFER Title: ENDOCRINOLOGY OF SHRIMP REPRODUCTION, MATURATION AND SPAWNING	CONNECTICUT	5,600	0	0
R/MP-13 (11842)	PIERA SUN Title: ISOLATION, CHARACTERIZATION, MOLECULAR CLONING OF THE CRUSTACEAN ANDROGENIC HORMONE FOR SEX-CONTROL RATIO IN SHRIMP AQUACULTURE	HAWAII	49,989	0	25,830

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-46

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
R/AQ-59 (11378)	PIERA S. SUN Title: MOLECULAR-CLONING OF A CYTOPLASMIC ACTIN PROMOTER GENE FROM SHRIMP PENAEUS VANNAMEI	HAWAII	20,379	0	22,318
R/MBE-06-98 (11870)	PAUL COLLODI Title: PRIMORDIAL GERM CELL (PGC) CULTURES FOR PRODUCTION OF TRANSGENIC FISH	ILLINOIS/INDIANA	79,525	0	31,862
R/GOI-3 (12173)	RICHARD K. COOPER Title: OPTIMIZATION OF GENE DELIVERY FOR IMPROVED OYSTER HEALTH	LOUISIANA	56,229	0	30,425
R/A-49 (12066)	JOHN P. HAWKE/RONALD L. THUNE Title: PRODUCTION AND EVALUATION OF LIVE ATTENUATED VACCINES FOR PROTECTION AGAINST PHOTOBACTERIUM DAMSELA SUBSP. PISCICIDA IN HYBRID STRIPED BASS	LOUISIANA	29,327	0	19,527
R/GOI-3 (12173)	RICHARD K. COOPER Title: OPTIMIZATION OF GENE DELIVERY FOR IMPROVED OYSTER HEALTH	LOUISIANA	11,264	0	0
R/GOI-5 (12174)	STANDISH K. ALLEN Title: NATURAL DERM RESISTANCE AND ITS ROLE IN THE DEVELOPMENT OF HATCHERIES FOR THE GULF OF MEXICO	LOUISIANA	91,671	0	75,313
R/FMD-267 (11795)	BRUCE L. NICHOLSON Title: MULTIPLEX POLYMERASE CHAIN REACTION (PCR) ASSAY FOR SIMULTANEOUS RAPID DETECTION OF THREE DIFFERENT FISH VIRUSES	MAINE/NEW HAMPSHIRE	51,620	0	38,102

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-47

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
R/FMD-150 (11794)	THOMAS D. KOCHER Title: GENETIC IMPROVEMENT OF SUMMER FLOUNDER BROODSTOCK	MAINE/NEW HAMPSHIRE	71,108	0	44,692
R/FMD-269 (11800)	BRUCE L. NICHOLSON Title: MOLECULAR BASIS OF VIRULENCE OF INFECTIOUS PANCREATIC NECROSIS VIRUS (IPNV)	MAINE/NEW HAMPSHIRE	114,371	0	79,157
R/F-84 (11260)	MARY HAGEDOR Title: CRYOPRESERVATION OF FISH EMBRYOS: PERMEABILITY OF THE YOLK SYNCYTIAL LAYER IN BECHORIONATED ZEBRA FISH EMBRYOS	MARYLAND	40,822	0	28,656
R/BT-08 (11688)	YONATHAN ZOHAR Title: PRODUCTION OF RECOMBINANT FISH GONADOTROPINS (GTHS) USING EUKARYOTIC EXPRESSION SYSTEMS AND DEVELOPMENT OF A STRIPED BASS GTH-I IMMUNOASSAY	MARYLAND	100,243	0	49,247
R/F-85 (11262)	YONATHAN ZOHAR Title: THE NOVEL GONADOTROPIN-RELEASING HORMONE (GNRH) OF FISH: ENDOCRINE AND MOLECULAR STUDIES TOWARDS DEVELOPING NEW STRATEGIES FOR SPAWNING IN STRIPED BASS	MARYLAND	80,000	0	39,398
R/A-6 (11891)	PERRY B. HACKETT, JR. Title: DEVELOPMENT OF VECTORS TO INACTIVATE GENE EXPRESSION IN FISH	MINNESOTA	74,137	0	39,328

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-48

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
R/LR-41 (11680)	DOUGLAS R. WATSON Title: DEVELOPMENT OF A METHOD FOR CONTROLLING THE MOLT CYCLE OF THE BLUE CRAB, CALLINECTES SAPIDUS	MISSISSIPPI/ALABAMA	34,029	0	17,548
R/LR-43 (11682)	LOUIS R. D'ABRAMO Title: NUTRITIONALLY COMPLETE, LOW COST, ARTIFICIAL DIETS FOR THE CULTURE OF FISH AND CRUSTACEAN LARVAE	MISSISSIPPI/ALABAMA	47,078	0	31,654
R/AF-37 (11758)	E. J. NOGA Title: DEVELOPMENT OF A NOVEL METHOD FOR ASSESSING HEALTH AND STRESS IN FISH	NORTH CAROLINA	0	0	47,063
R/A-12 (11927)	KONRAD. DABROWSKI/SAGIV KOLKOVSKI/CURT. THIES Title: APPLICATION OF NEW BIOTECHNOLOGY OF MICRO-ENCAPSULATION	OHIO	7,000	0	0
R/A-11 (11926)	KONRAD DABROWSKI/DAVID L. STETSON/GREG TOTH Title: FISH GENETIC RESOURCES BANK - BIODIVERSITY AND SUPERIOR FISH IN AQUACULTURE	OHIO	7,000	0	0
R/BT-28-NSI (11823)	JOANN C. LEONG Title: EXPRESSION VECTORS FOR GENETIC IMMUNIZATION OF FISH	OREGON	96,760	0	40,583

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-49

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
R/A-28 (11288)	STEPHEN A. SMITH Title: DEVELOPMENT OF A POLYMERASE CHAIN REACTION (PCR) TECHNIQUE FOR THE DETECTION OF MYCOBACTERIOSIS IN HYBRID STRIPED BASS, A CULTURED MARINE FISH.	VIRGINA	56,176	0	36,233
R/AQ-31 (11898)	TERRENCE P. BARRY Title: STEROID REGULATION OF THE STRESS RESPONSE AND IMMUNE FUNCTION IN SALMONID FISHES	WISCONSIN	116,084	0	30,819
R/BT-10 (11900)	JEFFREY A. MALISON Title: THE PRODUCTION OF FAST-GROWING, STERILE WALLEYE HYBRIDS THROUGH GENETIC AND ENDOCRINE TECHNOLOGIES	WISCONSIN	58,592	0	0
Number of Projects: 29			Subtotal: 1,520,798	0	888,843

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-50

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
Category: 51 - PRODUCT QUALITY AND SAFETY					
R/51-01 (11885)	CHARLES A. CRAPO Title: MANAGING SALMON FISHERIES FOR QUALITY	ALASKA	72,215	0	0
E/TP-1 (11721)	JAMES C. CATO Title: SEAFOOD HAZARD ANALYSIS CRITICAL CONTROL POINT (HACCP)	FLORIDA	99,978	0	0
R/ST-97050 (11495)	CHENG-WEI Title: BIOGENIC AMINES (HISTAMINE, CADAVERINE, AND PUTRESINE) DETECTION WITH AROMASCAN AS INDICES FOR AQUATIC PRODUCT QUALITY AND SAFETY	INDEPENDENT/OTHER	38,885	0	0
R/ST98129 (12122)	CARL BERGER Title: KUSKOKWIN SALMON QUALITY ENHANCEMENT PROJECT	INDEPENDENT/OTHER	25,000	0	0
R/PMO-18 (12077)	RONALD J. SIEBELING Title: DETECTION OF GENES ASSOCIATED WITH CAPSULE EXPRESSION IN VIRULENT VIBRIO VULNIFICUS STRAINS	LOUISIANA	30,276	0	14,275
R/OVV-1 (12069)	R. COOPER/T. TIERSCH/J.LAPEYRE Title: ELIMINATION OF VIBRIO VULNIFICUS IN EASTERN OYSTERS WITH LYTIC PEPTIDES	LOUISIANA	63,187	0	34,389
R/GOI-6 (12185)	JAMES D. OLIVER Title: USE OF GRAS AGENTS TO ELIMINATE VIBRIO VULNIFICUS FROM SHELLSTOCK AND SHUCKED OYSTERS	LOUISIANA	85,952	0	41,904

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-51

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
R/MT-39 (11684)	ASIM K. BEJ Title: FIELD APPLICATIONS OF MULTIPLEX PCR TO MONITOR MICROBIAL CONTAMINATION IN SHELLFISH IN THE GULF OF MEXICO	MISSISSIPPI/ALABAMA	37,808	0	20,088
R/SHH-7 (11732)	MARTIN WIEDMANN Title: SPECIFIC DETECTION AND TRACKING OF PATHOGENIC LISTERIA MONOCYTOGENES IN SMOKED SALMON AND IN PROCESINNG PLANTS	NEW YORK	57,456	0	33,038
R/SHH-6 (11730)	JOE M. REGENSTEIN Title: PREVENTING SCOMBROTOXIN FORMATION: DEVELOPING MORE REFINED DATA FOR AN ON-BOARD AND IN-PLANT HACCP PLAN	NEW YORK	38,594	0	30,529
R/SF-17 (11814)	MICHAEL T. MORRISSEY Title: DEVELOPMENT OF A HACCP - BASED QUALITY SYSTEM FOR ALBACORE TUNA AND PACIFIC WHITING	OREGON	49,623	0	21,670
Number of Projects: <u>11</u>		<u>Subtotal:</u>	<u>598,974</u>	<u>0</u>	<u>195,893</u>

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-52

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
Category: 52 - PROCESSING TECHNOLOGY AND PRACTICES					
R/ST97105 (11496)	BRIAN E. FARKAS Title: IMPLEMENTATION AND COMMERCIAL TESTING OF A NEW METHOD FOR THERMAL PROCESSING OF BLUE CRABS	INDEPENDENT/OTHER	29,211	0	0
R/ST98136 (12121)	JAE PARK Title: INNOVATIVE WATER JET MEAT RECOVERY FROM FISH BACKBONE	INDEPENDENT/OTHER	60,000	0	0
R/ST97022 (11494)	MICHAEL T. MORRISSEY Title: THE USE OF SURIMI WASH WATER IN FISH PROTEIN HYDROLYSATES	INDEPENDENT/OTHER	37,201	0	0
R/GOI-10 (12188)	CUSTADIO FERNANDEZ Title: TECHNICAL AND ECONOMIC EVALUATION OF A FREEZE-HEAT-COOL PROCESS THE FACILITATES OYSTER SHUCKING	LOUISIANA	69,015	0	31,000
RB-44 (12108)	H.O. HULTIN/STEPHEN KELLEHER Title: OVERCOMING PROBLEMS IN PRODUCING HIGH QUALITY FUNCTIONAL PROTEINS FROM SMALL PELAGIC FISH	MASSACHUSETTS	48,000	0	40,018
E/ST-1 (11531)	DR. RONALD G. HODSON Title: RESPONSE OF TUNA MUSCLE PROTEIN TO THERMAL PROCESSING: A SEA GRANT INDUSTRIAL FELLOW PROGRAM PARTNERSHIP WITH NCSU AND STARKIST SEAFOOD	NORTH CAROLINA	29,956	0	129,433

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-53

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
M/A-17 (11809)	JAY RASMUSSEN Title: REGION PROGRAM DEVELOPMENT	OREGON	60,000	0	0
Number of Projects:	<u>7</u>	<u>Subtotal:</u>	<u>333,383</u>	<u>0</u>	<u>200,451</u>

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-54

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
Category: 53 - WASTE MANAGEMENT AND BYPRODUCT RECOVERY					
R/MRD-38 (11760)	FERKET/DANIELS/BOYD/HINES Title: AN EVALUATION OF FERMENTED POULTRY MORTALITY AS BAIT FOR THE HARVESTING OF BLUE CRABS (CALLINECTES SAPIDUS) IN NORTH CAROLINA	NORTH CAROLINA	51,143	0	0
R/SF-18 (11815)	J. ANTONIO TORRES Title: PROTEIN RECOVERY BY ADSORPTION ON CHITOSAN-POLYANION NETWORKS	OREGON	45,070	0	21,801
R/SF-19 (11816)	JAE W. PARK Title: FISH SAUCE: A VALUE-ADDED PRODUCT FROM PACIFIC WHITING AND AN ULTIMATE SOLUTION FOR BY-PRODUCTS (SOLID FISH WASTE)	OREGON	62,646	0	15,936
R/AQ-32 (11901)	SRINIVASAN DAMODARAN Title: CONVERSION OF FISH PROCESSING WASTE AND UNDERUTILIZED FISH INTO VALUE-ADDED PROTEIN	WISCONSIN	43,527	0	7,363
Number of Projects: 4			<u>Subtotal:</u>	<u>202,386</u>	<u>0</u>
					<u>45,100</u>

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-55

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
Category:	62 - COASTAL RECREATION BUSINESSES				
E/CSC-2	GUSTAVO A. ANTONINI	FLORIDA	0	30,000	0
(11603)	Title: SUPPLEMENTAL FUNDS TO IMPLEMENT THE NON-REGULATORY BOATING URBAN BAYWATER MANAGEMENT PROJECT				
E/CSC-3	G.A. ANTONINI	FLORIDA	0	24,999	0
(12139)	Title: A RECREATIONAL BOATER-BASED METHOD FOR RE-DESIGNING THE NOS SMALL-CRAFT CHART TO PROMOTE SAFE NAVIGATION AND STEWARDSHIP OF COASTAL RESOURCES				
Number of Projects:	2	Subtotal:	0	54,999	0

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-56

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
Category: 63 - MARINE TRADES INDUSTRY					
E/T-7 (11717)	MARION L. CLARKE Title: NATIONAL SEA GRANT MARINA NETWORK ENHANCING THE ECONOMIC AND ENVIRONMENTAL SUSTAINABILITY OF THE MARINA INDUSTRY	FLORIDA	9,552	0	4,916
A/MRT-3 (12080)	MICHAEL M. LIFFMANN Title: MARINA NET	LOUISIANA	13,267	0	10,858
RT-2 (10383)	CHRYSSOSTOMOS CHRYSSOSTOMIDIS Title: FOCUSED RESEARCH	MASSACHUSETTS	200,000	0	100,000
M/PM-1A (11861)	CHUCK PISTIS Title: NATIONAL SEA GRANT MARINA NETWORK	MICHIGAN	13,789	0	8,799
A/EC-04-NSI-OUT (11824)	BRUCE DEYOUNG Title: NATIONAL SEA GRANT MARINA NETWORK: ENHANCING THE ECONOMIC AND ENVIRONMENTAL SUSTAINABILITY OF THE MARINA INDUSTRY (OREGON SEA GRANT COMPONENT)	OREGON	20,655	0	10,752
A/CR-983 (12002)	AMARAL, MARK Title: NATIONAL SEA GRANT MARINA NETWORK: ENHANCING THE ECONOMIC AND ENVIRONMENTAL SUSTAINABILITY FOR THE MARINA INDUSTRY	RHODE ISLAND	1,950	0	1,182

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-57

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
A/F-5 (12006)	DEWAYNE HOLLINS Title: NATIONAL SEA GRANT MARINA NET	TEXAS	26,076	0	13,125
Number of Projects:	<u>7</u>	<u>Subtotal:</u>	<u>285,289</u>	<u>0</u>	<u>149,632</u>

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-58

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
Category: 71 - COASTAL TOURISM DEVELOPMENT					
A/T-02 (11687)	DOUGLAS W. LIPTON Title: DEVELOPMENT OF A NOAA COASTAL ENVIRONMENTAL ECONOMICS EXTENSION NETWORK	MARYLAND	90,480	0	11,544
R/ME-20-PD (11928)	BRENT SOHNGEN/FRANK LICHTOPPLER/MARY BIELEN Title: VALUING GREAT LAKES BEACH RECREATION: AN ECONOMIC ASSESSMENT OF THE RECREATIONAL VALUE OF FRESHWATER BEACHES	OHIO	48,836	0	24,835
C/C-3 (11915)	DAVID J. COOPER/STEPHEN C. WITTMAN Title: SAILING THROUGH DEATH'S DOOR MULTIMEDIA SITE GUIDES TO WISCONSIN'S LAKE MICHIGAN SHIPWRECKS	WISCONSIN	13,420	0	11,347
Number of Projects: 3			<u>Subtotal:</u> 152,736	<u>0</u>	<u>47,726</u>

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-59

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
Category: 72 - COMMUNITIES IN TRANSITION					
R-72-1-98	MARITZA BARRETO	PUERTO RICO	10,000	0	10,800
(12157)	Title: MEASURING THE IMPACT OF URBAN SPRAWL IN THE COASTAL HABITATS OF THE NORTH COAST				
Number of Projects:	1	Subtotal:	10,000	0	10,800

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-60

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
Category: 73 - COASTAL AND WATERFRONT REDEVELOPMENT					
R/BC98168 (12119)	ROBERT F. GOODWIN Title: WATERFRONT REVITALIZATION IN NON-METROPOLITAN/COASTAL COMMUNITIES: A NATIONAL ASSESSMENT	INDEPENDENT/OTHER	9,749	0	0
R/NP-4 (11783)	R.F. GOODWIN/W. MILLHOUSER Title: WATERFRONT REVITALIZATION IN NON-METROPOLITAN COASTAL COMMUNITIES: A NATIONAL ASSESSMENT	WASHINGTON	58,104	0	19,749
Number of Projects: 2		<u>Subtotal:</u>	<u>67,853</u>	<u>0</u>	<u>19,749</u>

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-61

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
Category: 75 - PLANNING AND DECISION-MAKING INFORMATION					
R/MMR-17 (12073)	WALTER KEITHLY/KENNETH ROBERTS Title: AN ECONOMIC ANALYSIS OF PRIVATE MARKET WETLAND VALUES IN COASTAL LOUISIANA AND RELEVANCE IN DESIGNING APPROPRIATE ECONOMIC INSTRUMENTS FOR RESTORATION	LOUISIANA	50,001	0	42,092
R/SL-4 (10168)	RICHARD J. MCLAUGHLIN Title: MISSISSIPPI-ALABAMA SEA GRANT LEGAL PROGRAM	MISSISSIPPI/ALABAMA	73,849	0	135,024
R/BS-11 (11762)	J.C. JOHNSON/M. K. ORBACH Title: THE EVOLUTION OF MARINE FISHERIES POLICY IN NORTH CAROLINA: THE IMPLEMENTATION PHASE	NORTH CAROLINA	15,053	0	16,181
Number of Projects: 3			<u>Subtotal:</u>	<u>138,903</u>	<u>0</u>
					<u>193,297</u>

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-62

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
Category:	83 - STRUCTURE PERFORMANCE ASSESSMENTS				
R/OE-35	WILLIAM C. WEBSTER	CALIFORNIA	47,410	0	23,832
(11957)	Title: THE FEASIBILITY OF LARGE-SCALE FLOATING RUNWAYS				
Number of Projects:	1	Subtotal:	47,410	0	23,832

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-63

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
Category: 84 - REHABILITATION, REPAIR, AND RECYCLING PROCEDURES					
R/ES-3 (11379)	BRUCE E. LIEBERT	HAWAII	24,989	0	23,987
Title: ELECTRO-DEPOSITION OF CARBONATE STRUCTURES IN TROPICAL MARINE ENVIRONMENTS					
R/MT-97008 (11491)	CHON TSAI	INDEPENDENT/OTHER	47,955	0	0
Title: DEVELOPMENT AND COMMERCIALIZATION OF AN INTEGRATED WELDING SYSTEM FOR INDUSTRIAL APPLICATIONS					
R/OE-14 (11929)	CHON L. TSAI	OHIO	45,834	0	41,459
Title: DEVELOPMENT OF A MICROPROCESSOR-BASED JOINT TRACKING AND OPERATION GUIDANCE SYSTEM FOR UNDERWATER WELDING					
Number of Projects:		3	<u>Subtotal:</u>	<u>118,778</u>	<u>0</u>
				<u>65,446</u>	

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-64

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
Category: 91 - TOXICS					
R/CZ-146 (11982)	JANET G. HERING Title: SPECIATION OF METAL INPUTS TO COASTAL WATERS: CONSEQUENCES FOR METAL TRANSPORT AND BIOAVAILABILITY	CALIFORNIA	21,410	0	21,508
R/CZ-142 (11946)	RONALD S. TJEERDEMA Title: DIRECT IN VIVO MEASUREMENTS OF ENZYME REACTION RATES IN RED ABALONE AS INDICES OF SUBLETHAL TOXIC EFFECTS	CALIFORNIA	53,812	0	31,443
R/EL-14 (11365)	GORDON E. GRAU Title: EFFECTS OF ENVIRONMENTAL ENDOCRINE DISRUPTERS IN THE TROPICAL FISH, TILAPIA (OREOCHROMIS MOSSAMBICUS)	HAWAII	54,321	0	9,539
R/EL-16 (11366)	KHALIL J. SPENCER Title: UPTAKE OF ANTHROPOGENIC LEAD AND OTHER METALS BY P. LOBATA IN AREAS SUBJECT TO POINT AND NON-POINT POLLUTION STRESSES AROUND OAHU, HAWAII	HAWAII	9,751	0	27,194
R/PS-01-98 (11865)	GARY R. PEYTON Title: NATURAL PHOTOCHEMICALLY-MEDIATED DESTRUCTION OF CONTAMINANTS IN RIVERS AND LAKES OF THE CALUMET AREA	ILLINOIS/INDIANA	47,249	0	27,272
R/EC-02-97 (11863)	R. GILLESPIE/P. M. STEWART Title: DEVELOPMENT OF A BIOLOGICAL INDICATOR OF EXPOSURE TO PAHS IN FISHES OF THE GRAND CALUMET RIVER SYSTEM	ILLINOIS/INDIANA	47,206	0	30,688

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-65

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
R/EC-01-97	O. E. RHODES, JR./C. D. MCCREEDY/L. T. GLICKMAN/A. SPACIE	ILLINOIS/INDIANA	62,902	0	36,027
(11862)	Title: A GENOTOXICOLOGICAL APPROACH TO BIOMONITORING: BIOMARKERS FOR CARCINOGENS IN BULLHEAD CATFISH				
R/PS-02-98	CATHERINE J. SOUCH/GABRIEL M. FILIPPELLI/JERRY R. MILLER/DAVID JEWETT	ILLINOIS/INDIANA	59,856	0	30,902
(11866)	Title: CONTAMINATION OF WETLAND SEDIMENTS INDIANA DUNES NATIONAL LAKESHORE: IMPLICATIONS FOR WETLAND RESTORATION STRATEGIES				
R/CBT-36	DAVID VELINSKY/JAMES MCNAIR	MARYLAND	0	56,138	13,367
(11557)	Title: BIOACCUMULATION DYNAMICS OF HYDROPHOBIC ORGANIC CONTAMINANTS IN THE ANACOSTIA RIVER FOOD WEB				
R/CBT-33	CYNTHIA C. GILMOUR/GERHARDT F. RIEDEL	MARYLAND	0	178,343	0
(11555)	Title: AN ASSESSMENT OF THE IMPACT OF METAL-CONTAMINATED DREDGE SPOILS IN WETLAND RESTORATION				
R/CBT-36	DAVID VELINSKY/JAMES /MCNAIR	MARYLAND	0	4,157	0
(11557)	Title: BIOACCUMULATION DYNAMICS OF HYDROPHOBIC ORGANIC CONTAMINANTS IN THE ANACOSTIA RIVER FOOD WEB				
RC-67	GOLOMB/BARRY/FISHER	MASSACHUSETTS	50,886	0	26,137
(12107)	Title: ATMOSPHERIC DEPOSITION OF POLYCYCLIC AROMATIC HYDROCARBONS ONTO MASSACHUSETTS BAY: IDENTIFICATION OF SOURCES				

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-66

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
R/LS-1 (11743)	PATRICK L. BREZONIK Title: INDIRECT PHOTOLYSIS OF ORGANIC CONTAMINANTS AND NATURAL ORGANIC MATTER IN LAKE SUPERIOR THROUGH NITRATE-INDUCED HYDROXYL RADICAL REACTIONS	MINNESOTA	0	0	22,000
R/LS-3 (11890)	THOMAS C. JOHNSON Title: SEDIMENTS IN WESTERN LAKE SUPERIOR: DISTRIBUTION, INVENTORY, FOCUSING AND ANTHROPOGENIC METAL CONTAMINANTS	MINNESOTA	59,690	0	11,803
R/ER-38 (11677)	MARIUS BROUWER Title: EFFECTS OF ENDOCRINE-DISRUPTING CHEMICALS ON REPRODUCTIVE FUNCTION OF FISH	MISSISSIPPI/ALABAMA	50,388	0	25,679
R/ER-40 (11679)	DR. MARK E. ZAPPI Title: USE OF CHEMICAL PRIMING FOR ENHANCING THE BIOREMEDIATION POTENTIAL OF HEAVY PAH CONTAMINATED SEDIMENTS	MISSISSIPPI/ALABAMA	30,249	0	15,125
R/M-9802 (11832)	RICHARD I. HIRES Title: DYNAMIC MIXING ZONE ANALYSIS AND BIOLOGICAL STUDY TO EVALUATE THE EFFECTS OF CHLORINATED MUNICIPAL WASTEWATER ON THE MARINE ENVIRONMENT	NEW JERSEY	36,103	0	140,574
E/IF-1 (12140)	SUSAN W. FISHER/PETER F. LANDRUM/R. J. LARSON Title: CRITICAL BODY RESIDUES FOR AQUATIC RISK ASSESSMENT OF SURFACTANTS	OHIO	29,836	0	30,700

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-67

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
R/ECO-03 (11820)	CARL B. SCHRECK Title: EFFECTS OF ENDOCRINE DISRUPTING CHEMICALS ON IMMUNE SYSTEMS FUNCTION IN ESTUARINE FISHES	OREGON	83,205	0	16,234
R-91-1-98 (12020)	B. JIMENEZ/J.F. RODRIGUEZ Title: ENVIRONMENTAL POLLUTANTS IN AQUATIC ORGANISMS FROM THE SAN JOSE LAGOON	PUERTO RICO	81,745	0	50,000
R/CE-1 (11082)	T.L. KU/E.Y. ZENG Title: TRACING ORGANIC CONTAMINANTS FROM THE WHITE'S POINT OUTFALL EFFLUENT - RADIOISOTOPE STUDIES.	SOUTHERN CALIFORNIA	55,450	0	75,243
R/CE-2 (11083)	B. H. JONES/L. WASHBURN Title: DISPERSION AND MIXING OF STORM WATER RUNOFF IN SANTA MONICA BAY: APPLICATION OF SPECTRAL BIO-OPTICAL TECHNIQUES FOR OBSERVING CONTAMINANT DISTRIBUTIONS	SOUTHERN CALIFORNIA	30,452	0	4,547
R/CE-3 (11084)	M.H. HORN/C.T. COLLINS/A.MASON Title: FOOD WEB STRUCTURE AND HEAVY METAL ACCUMULATION IN A RECENTLY ESTABLISHED GUILD OF BREEDING SEABIRDS IN SOUTHERN CALIFORNIA	SOUTHERN CALIFORNIA	55,256	0	52,244
R/ES-78 (12029)	G. A. GILL/M.A. ALLISON Title: THE IMPORTANCE OF EPISODIC EVENTS ON TURBIDITY AND THE MOBILITY OF HEAVY METALS IN TEXAS ESTUARIES	TEXAS	71,200	0	35,609

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-68

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
R/BT-44 (12030)	D.L. BUSBEE/N. HUGHES ING Title: A REPORTER GENE SYSTEM FOR DETECTING AND INVESTIGATING MARINE POLLUTANTS WITH ENDOCRINE DISRUPTIVE ACTIVITIES	TEXAS	80,118	0	54,031
R/ES-77 (12025)	PETER SANTSCHI/L. GUO,S. RAY Title: BIOAVAILABILITY OF COLLOID-ASSOCIATED METALS TO ESTUARINE BIVALVES	TEXAS	79,946	0	39,973
R/CBT97-34 (11554)	DANIEL M. DAUER/ALAN W. MESSING Title: BENTHIC COMMUNITY RESPONSES TO MULTIPLE CONTAMINANTS	VIRGINA	0	117,540	0
R/CBT-35 (11551)	REBECCA DICKHUT Title: TRANSPORT AND FATE OF SEDIMENT-ASSOCIATED POLYCYCLIC AROMATIC HYDROCARBONS AND TRACE ELEMENTS IN THE ELIZABETH RIVER	VIRGINA	0	180,749	0
R/CBT-36 (11552)	DAVID VELINSKY/JAMES MCNAIR Title: BIOACCUMULATION DYNAMICS OF HYDROPHOBIC ORGANIC CONTAMINANTS IN THE ANACOSTIA RIVER FOOD WEB	VIRGINA	0	97,579	0
M/PD-CBT-1 (11553)	WILLIAM L. RICKARDS Title: CHESAPEAKE BAY TOXICS RESEARCH PROGRAM: NEW PROJECT INITIATIVES	VIRGINA	0	29,150	0
E/E-32 (12180)	MARC A. ANDERSON Title: ATR-BASED PHOTOCATALYTIC DRINKING WATER SYSTEMS	WISCONSIN	30,000	0	0

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-69

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
R/MW-58 (10570)	RICHARD E. PETERSON Title: AH RECEPTOR-MEDIATED DEVELOPMENTAL TOXICITY IN ZEBRAFISH	WISCONSIN	159,579	0	0
R/BT-11 (11877)	RICHARD E. PETERSON/MARGARET CLAGETT-DAME Title: IDENTIFICATION OF THE ENDOGENOUS LIGAND FOR THE ARYL HYDROCARBON RECEPTOR	WISCONSIN	47,106	0	22,448
R/MW-79 (11905)	MARC A. ANDERSON Title: DEGRADATION OF ORGANIC CONTAMINANTS IN SEDIMENTS VIA SUBCRITICAL WATER EXTRACTION AND PHOTOCATALYTIC OXIDATION OVER SUPPORTED NANOPARTICULATE METAL OXIDES	WISCONSIN	48,450	0	47,732
R/MW-78 (11902)	DAVID E. ARMSTRONG/DAVID N. EDGINGTON Title: CHANGES IN PATTERNS OF PCB CONTAMINATION IN SURFICIAL GREEN BAY SEDIMENTS OVER THE PAST DECADE: APPLICATIONS TO SEDIMENT REMEDIATION	WISCONSIN	52,866	0	50,594
R/MW-76 (11903)	WILLIAM KARASOV Title: IMPACT OF CONTAMINANTS ON SEXUAL DEVELOPMENT AND REPRODUCTION OF AMPHIBIANS IN GREAT LAKES ECOSYSTEMS	WISCONSIN	40,182	0	38,274
R/MW-77 (11904)	DAVID E. ARMSTRONG/WILLIAM C. SONZOGNI Title: WATERSHED EXPORT AND SPECIATION OF TRACE METALS IN THE LAKE SUPERIOR BASIN	WISCONSIN	44,757	0	42,712

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-70

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
R/B-151 (12094)	MARK E. HAHN/BRENDA A. JENSEN Title: MOLECULAR BIOMARKERS OF CHEMICAL SENSITIVITY IN PROTECTED SPECIES: II. CELL CULTURE BIOASSAYS	WOOD HOLE OCEANOGRAPHIC INST.	28,812	0	16,588
R/P-58 (10230)	MARK E., HAHN Title: IMPACT OF ENVIRONMENTAL CONTAMINANTS ON AN AQUATIC BIRD POPULATION	WOOD HOLE OCEANOGRAPHIC INST.	53,721	0	22,200
R/B-152 (12084)	JOHN STEGMAN/M. MOORE Title: BIOCHEMICAL TOXICOLOGY IN CETACEANS	WOOD HOLE OCEANOGRAPHIC INST.	22,970	0	23,983
Number of Projects: <u>40</u>			<u>Subtotal:</u>	<u>1,679,474</u>	<u>663,656</u>
					<u>1,092,370</u>

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-71

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
Category: 92 - BIOLOGICAL CONTAMINANTS					
R/CZ-153 (11952)	CLIFFORD F. BRUNK Title: QUANTITATIVE PCR ASSAY FOR MARINE BACTERIA	CALIFORNIA	100,000	0	53,190
R/EL-13 (11374)	MAQSUDUL ALAM Title: USE OF MOLECULAR GENETIC TECHNIQUES TO CO-DETECT BACTERIAL PATHOGENS AND THEIR SURVIVAL PHASES TO STRESSES IN HAWAII'S COASTAL WATERS	HAWAII	34,952	0	16,239
R/SC-1 (11742)	AXLER/HICKS/MCCARTHY Title: PATHOGEN AND NUTRIENT REMOVAL BY CONSTRUCTED WETLANDS FOR TREATMENT OF SINGLE HOME AND SMALL COMMUNITY WASTEWATER FLOWS	MINNESOTA	0	0	40,000
R/ECO-04 (11819)	KATHERINE G. FIELD Title: BIOTECHNOLOGICAL METHODS TO DISTINGUISH THE SOURCES OF FECAL POLLUTION IN ESTUARINE WATERS	OREGON	73,997	0	8,926
R/CH-1 (11085)	JED FUHRMAN Title: VIRUSES IN THE COASTAL WATER OF LOS ANGELES	SOUTHERN CALIFORNIA	42,629	0	29,922
Number of Projects: 5			<u>Subtotal:</u>	<u>251,578</u>	<u>0</u>
					<u>148,277</u>

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-72

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
Category: 93 - NUTRIENTS					
R/WQ-4 (11837)	JOEL E. KOSTKA Title: RATES AND CONTROLS OF SEDIMENT PROCESSES REGULATING NUTRIENT REGENERATION/BURIAL IN THE SATILLA RIVER ESTUARY	GEORGIA	61,567	0	43,083
R/WQ-1 (11116)	DEBORAH A. BRONK Title: COASTAL EUTROPHICATION: ORGANIC VERSUS INORGANIC NITROGEN AS A SOURCE OF COASTAL PRODUCTIVITY	GEORGIA	45,995	0	9,683
R/EL-1-A (12190)	MARLIN J. ATKINSON Title: FIELD VERIFICATION OF MASS-TRANSFER MODEL FOR NUTRIENT UPTAKE TO CORAL REEFS	HAWAII	17,345	0	55,787
COP-1 (11540)	DR. THOMAS JUSTER Title: THE ROLE OF GROUNDWATER NUTRIENT FLUXES IN THE NUTRIENT BUDGET OF FLORIDA BAY	INDEPENDENT/OTHER	0	13,008	0
(11542)	WILLIAM C. BURNETT Title: THE ROLE OF GROUNDWATER NUTRIENT ELUXES IN THE NUTRIENT BUDGET OF FLORIDA BAY	INDEPENDENT/OTHER	0	40,500	0
MAR94-7A, B, C (11204)	NANCY N. RABALAIS/EUGENE TURNER/WILLIAM J. WISEMAN Title: HYPOXIA HYDROGRAPHIC AND BIOLOGICAL SURVEYS - SUPPLEMENT	LOUISIANA	0	177,623	0

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-73

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
R/PMD-1 (12075)	EDWARD B. OVERTON Title: APPLICATION OF SEMIPERMEABLE MEMBRANE DEVICE (SPMD) FOR MONITORING POLLUTION IN THE CALCASIEU RIVER ESTUARINE SYSTEM	LOUISIANA	64,984	0	35,838
R/MPE-71 (12074)	NANCY RABALAIS/EUGENE TURNER Title: EFFECTS OF HYPOXIA IN THE NORTHERN GULF OF MEXICO: A SYNTHESIS	LOUISIANA	46,278	0	24,359
R/P-41 (10969)	PATRICIAL M. GLIBERT Title: THE ROLE OF DISSOLVED ORGANIC NITROGEN IN THE EUTROPHICATION OF CHESAPEAKE BAY	MARYLAND	55,001	0	31,138
R/P-45 (11693)	JEFFREY CORNWELL Title: NUTRIENT CYCLING IN OLIGOHALINE SEDIMENTS AND MARSHES: IS DENITRIFICATION A MAJOR SINK FOR NITROGEN?	MARYLAND	50,000	0	26,026
R/P-47 (11694)	LAWRENCE P. SANFORD Title: SURFACE WAVES AND AIR-SEA FLUXES IN CHESAPEAKE BAY	MARYLAND	36,174	0	20,343
R/P-38 (10044)	CYNTHIA C. GILMOUR Title: BACTERIOPLANKTON DYNAMICS IN THE PATUXENT RIVER: RESPONSE TO NITROGEN ABATEMENT	MARYLAND	29,681	0	15,816
RC-58 (11435)	HAROLD HEMOND Title: DENITRIFICATION AND NITROGEN ATTENUATION IN THE AQUIFER OF AN ESTUARINE WATERSHED	MASSACHUSETTS	74,973	0	39,267

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-74

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
RC-57 (11431)	JOSEPH P. MONTOYA Title: SEWAGE IN MASSACHUSETTS BAY: A STABLE ISOTOPE STUDY OF AN URBAN COASTAL ECOSYSTEM	MASSACHUSETTS	65,069	0	32,538
R/E-9802 (11830)	QIZHONG GUO Title: NITROGEN FLUX THROUGH BARNEGAT BAY INLET: MEASUREMENT AND ANALYSIS OF ITS VARIABILITY	NEW JERSEY	49,878	0	50,099
R/E-9801 (11833)	DR. YUAN GAO Title: ATMOSPHERIC NITROGEN DEPOSITION TO BARNEGAT BAY	NEW JERSEY	41,370	0	26,756
R/E-9704 (11352)	YUAN GAO Title: ATMOSPHERIC DEPOSITION OF NITROGEN AND TRACE METALS TO THE NEW YORK-NEW JERSEY HARBOR ESTUARY	NEW JERSEY	32,042	0	28,800
R/CMB-18 (11733)	STUART FINDLAY Title: MICROBIAL NITROGEN DYNAMICS DURING DECOMPOSITION OF PHRAGMITES AUSTRALIS COMPARED TO TYPHA ANGUSTIFOLIA	NEW YORK	65,443	0	35,087
R/MER-39 (11764)	H. PAERL/J. PINCKNEY Title: THE ROLE OF PHYTOPLANKTON COMMUNITY COMPOSITION ON EUTROPHICATION AND HYPOXIA DYNAMICS IN THE NEUSE RIVER ESTUARY, NC	NORTH CAROLINA	68,144	0	0

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-75

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
R/MER-38 (11763)	JOANN BURKHOLDER Title: ENVIRONMENTAL FACTOR INTERACTIONS CONTROLLING EELGRASS SURVIVAL UNDER WATER-COLUMN NITRATE ENRICHMENT	NORTH CAROLINA	68,107	0	8,000
R/ES-981B (12045)	B. NOWICKI/C. OVIATT Title: NUTRIENT ENRICHMENT AND HABITAT INTERACTIONS IN COASTAL LAGOONS - A SERIES OF MESOCOSM EXPERIMENTS	RHODE ISLAND	79,496	0	20,247
R/ES-981A (12044)	BETTY BUCKLEY/STEPHEN GRANGER Title: NUTRIENT ENRICHMENT AND HABITAT INTERACTIONS IN COASTAL LAGOONS - A SERIES OF MESOCOSM EXPERIMENTS	RHODE ISLAND	130,919	0	136,295
R/EC-981 (12047)	S. BRADLEY MORAN Title: SEASONAL STUDY OF GROUNDWATER NUTRIENT INPUT TO RHODE ISLAND COASTAL PONDS USING RADIUM ISOTOPES AS TRACERS	RHODE ISLAND	56,852	0	39,506
R/ES-981C (12046)	DAVID C. SMITH Title: NUTRIENT ENRICHMENT AND HABITAT INTERACTIONS IN COASTAL LAGOONS - A SERIES OF MESOCOSM EXPERIMENTS	RHODE ISLAND	94,201	0	23,250
R/EE-982 (12043)	S. GRANGER/B. BUCKLEY Title: NUTRIENT INPUTS FROM RHODE ISLAND SOUND AND THE PRODUCTIVITY OF NARRA. BAY	RHODE ISLAND	76,757	0	73,730

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-76

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
R/EC-6 (11906)	RUSSELL L. CUHEL/J.VALKLUMP/CARMEN AGUILAR Title: NET HETEROTROPHY/AUTOTROPHY IN COASTAL AND OFFSHORE LAKE MICHIGAN	WISCONSIN	34,577	0	20,003
R/M-40 (12085)	IVAN VALIELA Title: IDENTIFYING WASTEWATER-DERIVED NITROGEN IN AQUATIC ECOSYSTEMS: TESTS OF A STABLE ISOTOPE TRACER APPROACH	WOOD HOLE OCEANOGRAPHIC INST.	34,195	0	17,611
Number of Projects: 27			Subtotal: 1,379,048	231,131	813,262

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-77

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
Category:	94 - SEDIMENTATION				
R/LS-4	GARY PARKER	MINNESOTA	0	0	32,000
(11746)	Title: MODELING OF SEDIMENT PLUMES INTO LAKE SUPERIOR FROM THE NEMADJI RIVER				
Number of Projects:	1	Subtotal:	0	0	32,000

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-78

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
Category: 95 - BIOTOXINS/HARMFUL ALGAL BLOOMS					
R/CZ-145 (11971)	DAVID L. GARRISON Title: ASSESSING ENVIRONMENTAL CONTROL OF DOMOIC ACID PRODUCTION BY THE PLANKTONIC DIATOM, PSEUDO-NITZSCHIA AUSTRALIS, IN CALIFORNIA COASTAL WATERS	CALIFORNIA	51,139	0	40,162
R/CZ-144 (11959)	JASON G. SMITH Title: DOMOIC ACID BIOSYNTHESIS IN MARINE DIATOMS: BIOCHEMICAL PATHWAYS AND ENVIRONMENTAL REGULATION	CALIFORNIA	56,660	0	18,293
R/A-20 (11847)	GEORGE MCMANUS Title: TROPHIC EFFECTS OF TWO DINOFLAGELLATES UPON REPRESENTATIVE PELAGIC AND BENTHIC CONSUMERS	CONNECTICUT	73,325	0	23,483
SBIR-10-I (12205)	ARTHUR T. POULOS Title: MICRO-RADIOMETER/FLUOROMETER FOR OCEAN SENSING	INDEPENDENT/OTHER	49,405	0	0
ECOHAB (11581)	JOHN WALSH Title: ECOHAB: FLORIDA	INDEPENDENT/OTHER	0	335,000	0
SBIR-8-II (12208)	PAUL V. HAYDOCK Title: SIMPLIFIED DNA PROBE IDENTIFICATION OF HARMFUL ALGAL SPECIES	INDEPENDENT/OTHER	199,703	0	0

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-79

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
R/GOI-8 (12170)	GARY E. RODRICK Title: OZONE ASSISTED DEPURATION OF RED TIDE CONTAMINATED MOLLUSCAN SHELLFISH	LOUISIANA	112,775	0	52,580
R/CE-227(A) (11642)	DAVID W. TOWNSEND Title: ECOHAB-GOM:THE ECOLOGY AND OCEANOGRAPHY OF TOXIC ALEXANDRIUM BLOOMS IN THE GULF OF MAINE	MAINE/NEW HAMPSHIRE	0	250,239	0
R/CE-227 (11641)	MAUREEN D. KELLER Title: ECOHAB-GOM: THE ECOLOGY AND OCEANOGRAPHY OF TOXIC ALEXANDRIUM BLOOMS IN THE GULF OF MAINE	MAINE/NEW HAMPSHIRE	0	50,000	0
(11641)	MAUREEN D. KELLER Title: ECOHAB-GOM: THE ECOLOGY AND OCEANOGRAPHY OF TOXIC ALEXANDRIUM BLOOMS IN THE GULF OF MAINE	MAINE/NEW HAMPSHIRE	0	52,498	0
R/CE229 (11798)	N. R. PETTIGREW Title: PHYSICAL PROCESSES BETWEEN THE KENNEBEC ESTUARY, CASCO BAY AND THE INNER SHELF: POTENTIAL IMPLICATION FOR CONTAMINANT TRANSPORT AND RED TIDE	MAINE/NEW HAMPSHIRE	36,316	0	16,933
R/CE-233 (11799)	HUIJIE XUE Title: REAL-TIME SIMULATIONS OF THE CIRCULATION IN PENOBSCOT BAY: A STUDY OF THE PREDICTABILITY OF A COASTAL EMBAYMENT	MAINE/NEW HAMPSHIRE	27,449	0	8,831

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-80

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
R/CE-227 (11630)	THEODORE LODER Title: ECOHAB-GOM: THE ECOLOGY AND OCEANOGRAPHY OF TOXIC ALEXANDRIUM BLOOMS IN THE GULF OF MAINE	MAINE/NEW HAMPSHIRE	0	55,982	0
R/CMC-2 (11177)	GREGORY L. BOYER/JULIE LA ROCHE Title: FERREDOXIN AND FLAVODOXIN AS METABOLIC MARKERS FOR IRON STRESS IN AUREOCOCCUS ANOPHAGEFFERNS	NEW YORK	0	50,947	5,064
R/XG-5 (11176)	ROBERT A. ANDERSEN Title: MULTIPLE CULTURE ISOLATES (XENIC AND AXENIC) BIODIVERSITY AND ULTRASTRUCTURE OF AUREOCOCCUS ANOPHAGEFFERENS	NEW YORK	0	102,877	0
R/SHH-8 (11731)	GREGORY L. BOYER Title: CONSTRUCTION AND TESTING OF AN INEXPENSIVE PSP TOXIN ANALYZER	NEW YORK	53,398	0	37,064
R/CE-12 (11178)	DAVID A. CARON/DARCY J. LONSDALE Title: MICROZOOPLANKTON-MESOOZOOPLANKTON COUPLING AND ITS ROLE IN THE INITIATION OF BLOOMS OF AUREOCOCCUS ANOPHAGEFFERENS (BROWN TIDES)	NEW YORK	0	84,769	28,297
R/CMB-14 (11179)	MAUREEN D. KELLER/MICHEAL E. SIERACKI Title: PHYSIOLOGICAL ECOLOGY OF THE BROWN TIDE ORGANISM, AUREOCOCCUS ANOPHAGEFFERENS	NEW YORK	0	88,146	16,798

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-81

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
R/CMC-3 (11181)	SERGIO SANUDO-WILHELMY/DAVID HUTCHINS/JOHN DONAT Title: BIOGEOCHEMICAL AND ANTHROPOGENIC FACTORS THAT CONTROL BROWN TIDE BLOOMS: THE EFFECTS OF METALS AND ORGANIC NUTRIENTS IN LONG ISLAND'S EMBAYMENTS	NEW YORK	0	79,214	19,244
A/O-2 (11564)	CORNELIA G. SCHLENK Title: BROWN TIDE OUTREACH EFFORT	NEW YORK	0	16,483	0
R/CMB-15 (11563)	PATRICIA M. GLIBERT/TODD M. KANA Title: MECHANISMS FOR NUTRIENT AND ENERGY ACQUISITION IN LOW LIGHT: SUCCESSFUL STRATEGIES OF AUREOCOCCUS ANOPHAGEFFERENS	NEW YORK	0	71,492	23,000
R-95-1-98 (12003)	DAVID L. BALLANTINE Title: IMPACT OF CYANOBACTERIAL, MICROCOLEUS LYNGBYACEUS, AND EUKARYOTIC MACROALGAL BLOOMS ON INSHORE SEAGRASS HABITATS IN SOUTHWEST PUERTO RICO	PUERTO RICO	50,276	0	75,419
R/MB-981 (12000)	NELSON, WILFRED H. Title: THE RAPID DETECTION AND QUANTITATION OF DOMOIC ACID IN PHYTOPLANKTON AND SHELLFISH	RHODE ISLAND	17,700	0	37,884
EP/HAB-98-03 (12148)	LUNDIE SPENCE Title: UNC-TV DOCUMENTARY: HAZARDOUS ALGAL BLOOMS, INCLUDING PFEISTERIA	VIRGINIA	5,000	0	1,000

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-82

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
EP/HAB-98-09 (12154)	WILLIAM DUPAUL/JAMES E. KIRKLEY Title: WORKING MEETING ON DEVELOPING A MONITORING PLAN AND ASSESSMENT OF THE ECONOMIC RAMIFICATIONS OF PFEISTERIA AND OTHER TOXIC ALGAL BLOOMS	VIRGINA	4,200	0	1,400
EP/HAB-98-02 (12147)	T. BRYANT Title: USING RADIO TO HELP EDUCATE THE PUBLIC ABOUT PFEISTERIA	VIRGINA	2,097	0	699
EP/HAB-98-04 (12149)	MICHAEL FINCHAM Title: VIDEO DOCUMENTARY ON PFEISTERIA	VIRGINA	21,000	0	15,540
EP/HAB-98-10 (12155)	WILLIAM L. RICKARDS Title: PROJECT MANAGEMENT AND DEVELOPMENT	VIRGINA	10,708	0	7,248
EP/HAB-98-08 (12153)	JAMES FALK Title: UNDERSTANDING THE PUBLIC'S CONCERNS TOWARDS HARMFUL ALGAL BLOOMS, ESPECIALLY PFEISTERIA PISCICIDA, AND OTHER WATER QUALITY ISSUES IN THE MID-ATLANTIC REGION	VIRGINA	15,540	0	5,180
EP/HAB-98-07 (12152)	LUNDIE SPENCE Title: EDUCATIONAL RESOURCE GUIDE: HAZARDOUS ALGAL BLOOMS, INCLUDING PFEISTERIA	VIRGINA	10,000	0	2,191
EP/HAB-98-01 (12146)	JACK R. GREER Title: PFEISTERIA RESOURCE NOTEBOOK AND REGIONAL WEBSITE	VIRGINA	20,955	0	14,992

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-83

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
EP/HAB-98-06 (12151)	BEN SHERMAN Title: SCIENCE IN THE NEWS: PFEISTERIA - BEYOND THE HYSTERIA	VIRGINA	5,250	0	875
EP/HAB-98-05 (12150)	RACHEL KELLY Title: SEA GRANT RADIO INTERVIEWS TO ADDRESS CONCERNS ABOUT PFEISTERIA PISCICIDA IN THE MID-ATLANTIC REGION	VIRGINA	5,250	0	875
R/B-30 (11784)	ROSE ANN CATTOLICO Title: CELLULAR CLOCKS TIME THE PULSED RELEASE OF HETEROSIGMA TOXINS	WASHINGTON	41,300	0	43,081
R/B-140 (11099)	D. M. ANDERSON/J. T. TURNER Title: DYNAMICS OF THE TOXIC DINOFLAGELLATE ALEXANDRIUM IN THE GULF OF MAINE: SOURCE POPULATIONS AND DOWNSTREAM IMPACTS	WOOD HOLE OCEANOGRAPHIC INST.	60,000	0	62,946
R/B-146 (12091)	DONALD ANDERSON/J. HOWARD Title: DETECTION OF HARMFUL ALGAL SPECIES USING MOLECULAR PROBES: FIELD TRIALS	WOOD HOLE OCEANOGRAPHIC INST.	54,941	0	31,572
R/B-152-PT (12129)	DENNIS MCGILLICUDDY Title: ECOHAB-GOM: THE ECOLOGY AND OCEANOGRAPHY OF TOXIC ALEXANDRIUM BLOOMS IN THE GULF OF MAINE	WOOD HOLE OCEANOGRAPHIC INST.	0	75,714	0
Number of Projects: <u>37</u>			<u>Subtotal:</u>	<u>984,387</u>	<u>1,313,361</u>
					<u>590,651</u>

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-84

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
Category: 96 - NONPOINT SOURCE POLLUTION					
R/CZ-136 (11470)	RICHARD WRIGHT Title: A GIS-BASED MONTHLY RIVER DISCHARGE MODEL FOR COASTAL WATERSHEDS IN SOUTHERN CALIFORNIA - BAJA CALIFORNIA	CALIFORNIA	28,515	0	30,504
R/EL-12 (11363)	PAUL L. JOKIEL Title: IMPACT OF PULSED STREAM FLOW ON THE DELIVERY OF LAND-DERIVED MATERIALS TO THE NEARSHORE MARINE ENVIRONMENT OF KANEOHE BAY	HAWAII	23,457	0	31,033
R/EL-15 (11360)	ERIC HEINEN DE CARLO Title: HEAVY METALS FLUXES TO THE NEARSHORE OCEAN DERIVED FROM NON-POINT SOURCE POLLUTION IN TWO SMALL ESTUARIES, O'AHU, HAWAII	HAWAII	18,015	0	27,194
R/EL-17 (11361)	RICHARD W. GRIGG Title: OCEANIC CLIMATE CHANGE AND NON-POINT SOURCE POLLUTION AS REVEALED BY 100 YEAR OLD CORALS IN HAWAII	HAWAII	42,815	0	44,354
A/SE-05-98 (11385)	LESLIE DORWORTH Title: SOUTHERN LAKE MICHIGAN WATER QUALITY ISSUES AND CONCERNS	ILLINOIS/INDIANA	79,000	0	16,342
R/PO-3 (11256)	NANCY E. BOCKSTAEI Title: NON-POINT SOURCE POLLUTION AND LAND USE IN THE PATUXENT WATERSHED	MARYLAND	54,988	0	30,044
Number of Projects:	6	Subtotal:	246,790	0	179,471

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-85

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
Category:	97 - CHEMICAL AND OIL SPILLS				
ET/C-39	ROBERT STICKNEY	TEXAS	15,000	0	15,000
(12183)	Title: TIDE AND RIVER DRIVEN CIRCULATION AS INPUT TO COMMERCIAL OIL SPILL SIMULATORS				
Number of Projects:	1	Subtotal:	15,000	0	15,000

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-86

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
Category: 101 - HABITAT STRUCTURE AND FUNCTION					
R/CZ-141 (11960)	PAUL K. DAYTON Title: EFFECT OF SPORE ABUNDANCE ON RECRUITMENT AND MAINTENANCE OF SUBTIDAL KELP POPULATIONS	CALIFORNIA	21,248	0	16,885
R/ER-2 (11254)	JOHN VAREKAMP Title: HOW COASTAL SALT MARSHES GROW: INVESTIGATIONS OF LONG ISLAND SOUND AND DELAWARE BAY MARSHES	CONNECTICUT	23,535	0	18,300
R/ME-16 (10207)	KUO-CHUIN WONG Title: THE TRANSVERSE VARIABILITY IN A COASTAL PLAIN ESTUARY	DELAWARE	19,592	0	40,414
E/COP-1 (11476)	J.C. CATO/M. L. CLARKE Title: FLORIDA BAY OUTREACH AND COMMUNITY EDUCATION PROGRAM	FLORIDA	0	180,000	0
R/HAB-3 (11835)	CHANGSHENG CHEN Title: INITIAL DEVELOPMENT OF AN INTERDISCIPLINARY MODEL OF THE GEORGIA ESTUARIES	GEORGIA	53,014	0	9,874
R/EA-21 (11838)	RICHARD G. WIEGERT Title: COMMUNITY STRUCTURE, FOOD WEB ANALYSIS, AND ORGANIC MATTER DYNAMICS IN A BRACKISH TIDAL CREEK WITHIN THE ALTAMAHA RIVER ESTUARY	GEORGIA	47,076	0	30,719

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-87

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
R/EP-7 (11368)	JANE S. TRIBBLE Title: SEDIMENTARY RECORD OF CLIMATE VARIATIONS AND HOLOCENE SEA LEVEL FLUCTUATIONS ON O'AHU	HAWAII	16,311	0	41,126
R/EL-11 (11364)	HEINZ GERT DECOUET Title: DISEASE AND TUMORS IN CORALS: NATURAL AGENTS OF CHANGE IN HAWAIIAN REEF ECOSYSTEMS?	HAWAII	23,177	0	32,540
R/COP-FLBAY-2 (11601)	NED P. SMITH Title: FIELD OBSERVATIONS TO INTIALIZE AND VERIFY COMPUTER SIMULATIONS OF FLORIDA BY	INDEPENDENT/OTHER	0	58,957	9,354
UNKNOWN (12145)	DR. CABRIEL A. VARGO Title: CIRCULATION, NUTRIENT FLUX, AND PHYTOPLANKTON GROWTH IN FLORIDA BAY	INDEPENDENT/OTHER	0	41,000	0
R/MMR-15 (12071)	KAREN L. MCKEE Title: POTENTIAL EFFECTS OF ELEVATED CO2 ON PRODUCTION DECOMPOSITION PROCESSES IN COASTAL MARSHES	LOUISIANA	58,097	0	25,868
UNKNOWN (11631)	MICHAEL DAGG Title: TROPHIC PATHWAYS IN THE PELAGIC ENVIRONMENT OF FLORIDA BAY: WORK PLAN AND BUDGET MODIFICATION	LOUISIANA	0	54,992	13,853

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-88

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
R/F-9801 (11829)	JUDITH P. GRASSLE Title: COORDINATED STUDIES OF ESTUARINE FLUSHING AND FLUXES OF LARVAE OF ESTUARINE AND COASTAL BIVALVES THROUGH A TIDAL INLET	NEW JERSEY	42,191	0	37,984
R/M-9801 (11831)	ROBERT J. CHANT Title: LOW FREQUENCY CIRCULATION IN A MULTIPLE INLET/BAY SYSTEM	NEW JERSEY	53,763	0	32,058
R/FBF-10 (11734)	NEIL H. RINGLER Title: CONTRIBUTIONS OF FISH PRODUCTION FROM COASTAL WETLANDS AND NEARSHORE AREAS TO GREAT LAKES PELAGIC HABITATS	NEW YORK	33,990	0	24,282
R/CMB-17 (11736)	ROBERT M. CERRATO Title: SHELL BEDS AS HOT SPOTS FOR INCREASED HARD CLAM PRODUCTION	NEW YORK	60,966	0	45,510
R/MRD-40 (11765)	M. POSEY/T. FRAZER/T. ALPHIN Title: REGIONAL PATTERNS OF HABITAT USE BY JUVENILE BLUE CRABS: ASSESSING ALTERNATIVE HABITAT TYPES IN FLORIDA AND NORTH CAROLINA	NORTH CAROLINA	15,289	0	15,006
R/COP-10 (11550)	GARY S. KLEPPEL/MICHAEL DAGG Title: TROPHIC PATHWAYS IN PELAGIC ENVIRONMENT OF FLORIDA BAY	SOUTH CAROLINA	0	27,000	0

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-89

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
R/ER-16 (11937)	J. T. MORRIS Title: STRUCTURE AND FUNCTIONS OF TIDAL FRESHWATER WETLANDS ON THE COOPER RIVER, SC: EFFECTS OF WATER MANAGEMENT ON SUCCESSION, NUTRIENT CYCLING, AND FISH HABITAT	SOUTH CAROLINA	144,346	0	111,454
R/COP-6 (10301)	F. JOHN VERNBERG Title: URBANIZATION AND SOUTHEASTERN ESTUARINE SYSTEMS (USES)	SOUTH CAROLINA	0	700,000	138,589
R/ES-76 (11334)	JAMES HEILMAN/KEVIN J. MCINNES Title: TOWER-BASED CONDITIONAL SAMPLING TO MONITOR THE IMPACT OF FRESHWATER MANAGEMENT ON COASTAL WETLANDS	TEXAS	19,575	0	14,306
(11546)	GEORGE A. JACKSON Title: DEVELOPMENT OF MODELS TO DESCRIBE ECOSYSTEM INTERACTIONS IN FLORIDA BAY	TEXAS	0	93,182	0
Number of Projects: <u>22</u>			<u>Subtotal:</u>	<u>632,170</u>	<u>1,155,131</u>
					<u>658,122</u>

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-90

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
Category: 102 - HABITAT RESTORATION					
R/CZ-139 (11460)	DAVID STODDART Title: PROCESSES OF TIDAL CHANNEL MORPHOLOGICAL EVOLUTION AND APPLICATION TO WETLAND RESTORATION AND CONSERVATION	CALIFORNIA	18,612	0	149,836
R/CZ-154 (11973)	THEODORE C. FOIN Title: CHARACTERIZING VEGETATION-HYDROLOGY INTERACTIONS FOR TIDAL MARSH RESTORATION	CALIFORNIA	20,995	0	44,817
R/CZ-155 (11970)	TIMOTHY J. MULLIGAN Title: ECOSYSTEM AND RESTORATION ANALYSIS OF THE SMITH RIVER ESTUARY, CALIFORNIA, WITH EMPHASIS ON ANADROMOUS SALMONIDS	CALIFORNIA	77,995	0	31,209
R/CZ-131 (11963)	DALE INGMANSON Title: WETLANDS RESTORATION BY PUBLIC SCHOOL TEACHERS AND STUDENTS	CALIFORNIA	19,812	0	11,132
R/CZ-140 (11468)	LISA A. LEVIN Title: FAUNAL RECOVERY IN RESTORED WETLANDS	CALIFORNIA	51,049	0	49,205
R/MMR-16 (12072)	IRVIN A. MENDELSSOHN Title: MARSH RESTORATION WITH DREDGED SEDIMENT: CONTROLS ON SALT MARSH STRUCTURE AND FUNCTION BY DIFFERENTIAL SEDIMENT ADDITION	LOUISIANA	59,208	0	34,331

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-91

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
A/CER-1 (12078)	MICHAEL LIFFMAN Title: COASTAL ECOSYSTEM RESTORATION PROJECT	LOUISIANA	16,617	0	8,685
R/CE-506 (11668)	FREDERICK T. SHORT Title: EELGRASS (ZOSTERA MARINA L.) HABITAT RESTORATION IN NEW BEDFORD HARBOR, MASSACHUSETTS	MAINE/NEW HAMPSHIRE	0	125,244	0
R/LS-6 (11747)	CARL RICHARDS Title: EVALUATING POTENTIAL REINTRODUCTION SITES FOR COASTER BROOK TROUT WITHIN THE LAKE SUPERIOR BASIN	MINNESOTA	0	0	47,000
A/EEP-11 (11737)	DALE R. BAKER Title: COASTAL ECOSYSTEM RESTORATION PILOT PROJECT	NEW YORK	22,432	0	15,044
R/CMB-16 (11735)	VALRIE A. GERARD Title: RESTORATION OF KELP BED HABITATS IN LONG ISLAND SOUND	NEW YORK	52,739	0	34,148
R/ECO-1-NSI-OUT (11825)	PATRICK CORCORAN Title: COASTAL ECOSYSTEM RESTORATION PILOT PROJECT	OREGON	27,653	0	39,371
R/ECO-02 (11818)	DANIEL L. BOTTOM Title: JUVENILE SALMON REARING IN RESTORED WETLANDS OF THE SALMON RIVER (REGIONAL PROJECT)	OREGON	66,062	0	48,088

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-92

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
MPRD-3-102-1-98 (12012)	W.A. BOWDEN-KERBY Title: CORAL CULTURE AND TRANSPLANTATION: METHODS FOR USE IN CORAL REEF RESTORATION, FISHERIES ENHANCEMENT AND COMMERCIAL CORAL AQUACULTURE	PUERTO RICO	26,952	0	15,025
R/ES-29 (11785)	C. A. SIMENSTAD/J.R. CORDELL Title: JUVENILE SALMON REARING IN RESTORED WETLANDS OF THE SALMON RIVER ESTUARY	WASHINGTON	67,700	0	26,867
Number of Projects: 15		Subtotal:	527,826	125,244	554,758

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-93

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
Category: 103 - AQUATIC NUISANCE SPECIES					
R/08-09 (11602)	N. FOSTER/A.HINES/J. CHAPMAN Title: BIOLOGICAL INVASIONS OF COLD-WATER COASTAL ECOSYSTEMS: BALLAST-MEDIATED INTRODUCTIONS IN PORT VALDEZ/PRINCE WILLIAM SOUND, ALASKA	ALASKA	92,405	0	150,199
R/CZ-1PT (12192)	DONALD R. STRONG Title: REGIONAL RESEARCH AND OUTREACH - CONTROL OF NONINDIGENOUS (SPARTINA ALTERNIFLORA) AND HYBRIDS WITH NATIVE (S.FOLIOSA) CORDGRASSES IN SAN FRANCISCO BAY	CALIFORNIA	0	136,833	47,420
R/CZ-150 (11953)	LISA LEVIN Title: CONTRASTING EFFECTS OF ECOSYSTEM ALTERATION BY TWO EXOTIC WETLAND INVERTEBRATES	CALIFORNIA	162,436	0	52,316
R/CZ-158 (12131)	DONALD R. STRONG Title: INITIAL STEPS TOWARD ERADICATION OF ALIEN CORDGRASS FROM CALIFORNIA WATERS	CALIFORNIA	20,000	0	20,000
R/CZ-151 (11951)	ANNTONIA WIJTE Title: ERADICATING ARUNDO DONAX FROM CALIFORNIA ECOSYSTEMS: ESTABLISHING THE MOST EFFECTIVE TIMING FOR MECHANICAL AND CHEMICAL PROCEDURES	CALIFORNIA	63,942	0	34,391
A/EA-2 (11969)	JODI L. CASSELL Title: WEST COAST BALLAST WATER INITIATIVE: AN OUTREACH PROGRAM TO IMPROVE BALLAST MANAGEMENT	CALIFORNIA	69,212	0	40,100

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-94

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
R/ER-12 (11850)	R. M. CHAMBERS Title: HYDROLOGIC AND CHEMICAL CONTROL OF PHRAGMITES GROWTH IN TIDAL MARSHES	CONNECTICUT	50,202	0	34,028
R/MI-1 (11845)	C. HELSLEY/P. GUSTAV Title: SURVEY OF INTRODUCED MARINE INVERTEBRATES ON GUAM	HAWAII	125,455	0	82,660
A/CEH-02-98 (11871)	PATRICE M. CHARLEBOIS Title: SEA GRANT EXTENSION, NONINDIGENOUS SPECIES SPECIALIST: LOCATED AT THE LAKE MICHIGAN BIOLOGICAL STATION, ILLINOIS NATURAL HISTORY SURVEY	ILLINOIS/INDIANA	40,000	0	20,000
R/ES-05-98 (11869)	DAVID M. LODGE/JEFFREY FEDER Title: DISPERSAL OF EXOTIC SPECIES IN THE GREAT LAKES: CRAYFISH AS A MODEL SYSTEM FOR BENTHIC SPECIES	ILLINOIS/INDIANA	52,400	0	22,694
R/ANS-04-98 (11868)	JOHN HANSSEN/MARTIN BERG Title: ROUND GOBY AND MOTTLED SCULPIN SPAWNING INTERACTIONS	ILLINOIS/INDIANA	33,795	0	18,343
UNKNOWN (12194)	DALE R. BAKER/CHARLES R. O'NEILL, JR. Title: REGIONAL RESEARCH AND OUTREACH: ADDING ATLANTIC COAST, GULF COAST, AND PACIFIC COAST SALT AND BRACKISH WATER AQUATIC NUISANCE SPECIES TO THE CLEARINGHOUSE TECHNICAL LIBRARY	INDEPENDENT/OTHER	0	73,432	36,774

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-95

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
(12598)	ROBERT E. BOURKE Title: DEVELOPMENT OF A SHIPBOARD ULTRASONIC BALLAST WATER ORGANISM CONTROL SYSTEM	INDEPENDENT/OTHER	50,000	0	0
R/FMD-510 (11803)	EDWIN GROSHOLZ Title: QUANTIFYING THE RANGE EXPANSION AND IMPACTS OF THE EUROPEAN GREEN CRAB	MAINE/NEW HAMPSHIRE	14,175	0	7,483
R/FMD-152 (11801)	A.S. KLEIN/A.C. MATHIESON Title: EFFECTS OF NORI AQUACULTURE ON THE MARINE FLORA OF COBHOOK BAY AND SELECTED SITES WITHIN THE GULF OF MAINE	MAINE/NEW HAMPSHIRE	137,356	0	35,721
R/FMD-154 (11802)	EDWIN GROSHOLZ Title: POTENTIAL IMPACTS OF A NONINDIGENOUS CRAB ON SELECTED WEST COAST COMMERCIAL INVERTEBRATES	MAINE/NEW HAMPSHIRE	9,200	0	0
UNKNOWN (12197)	DAVID A. WRIGHT Title: CHESAPEAKE BAY BALLAST WATER: AN INVESTIGATION ASSESSMENT OF EXCIMER UV AS A METHOD OF SHIPBOARD OR DOCK-SIDE TREATMENT	MARYLAND	0	260,030	0
R/ES-08 (11690)	GREGORY RUIZ/ANSON H. HINES Title: MEASURING THE TRANSFER, DYNAMICS, AND RISK OF INVASION FOR MICROBIAL COMMUNITIES ASSOCIATED WITH BALLAST WATER OF SHIPS	MARYLAND	73,253	0	63,967

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-96

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
RB-46 (12102)	D. P. CHENEY Title: EFFECT OF NORI AQUACULTURE ON THE MARINE FLORA OF COBSCOOK BAY AND SELECTED SITES WITHIN THE GULF OF MAINE. A NON-INDIGENOUS SPECIES GRANT WITH PIS FROM UNH/UMAINE.	MASSACHUSETTS	23,615	0	11,910
R/CE-13 (11738)	EDWARD L. MILLS Title: SUSTAINING FISHERIES IN A CHANGING ENVIRONMENT. THE EFFECT OF OLIGOTROPHICATION AND INVASION OF DREISSENIDS IN EASTERN LAKE ERIE	NEW YORK	69,945	0	51,864
R/NIS-4-PD (11921)	JEFFREY. G. MINER/REX L. LOWE Title: BENTHIC-PELAGIC COUPLING: COMMUNITY RESPONSES TO ROUND GOBY PREDATION ON ZEBRA MUSSELS	OHIO	42,084	0	24,811
R/EM-20 (11920)	DAVID A. CULVER Title: SPATIAL DYNAMIC MODELING OF LARGE LAKE LOWER TROPHIC LEVEL DYNAMICS: EFFECTS OF ZEBRA MUSSELS AND NUTRIENT LOADING	OHIO	22,261	0	30,071
R/ER-43 (11922)	ROBERT. T. HEATH/JOSEPH. M. BALCZON Title: EFFECTS OF ZEBRA MUSSELS ON BENTHIC MICROBIAL PROCESSES: FIELD AND LABORATORY TESTS OF THE HYPOTHESIS THAT DREISSENA POLYMORPHA FEEDING ACTIVITY INCREASES BENTHIC MICROBIAL PROCESSES	OHIO	24,191	0	12,134
R/ZM-28 (11919)	SCUDDER.D. MACKEY/KENNETH BAKER Title: SUBSTRATE AND ZEBRA MUSSELS: CONTROLS AND IMPACTS ON FISH REPRODUCTIVE HABITAT-WESTERN BASIN REEFS	OHIO	0	0	0

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-97

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
R/ER-46-PD (11924)	DAVID A. FRANCKO Title: STRATEGIES TO CONTROL EXOTIC INVASIVE PLANT SPECIES IN GREAT LAKES WETLANDS: A FIELD EVALUATION	OHIO	12,388	0	4,883
R/NIS-04-NSI-OUT (11826)	JODI CASSELL Title: WEST COAST BALLAST WATER INITIATIVE: AN OUTREACH PROGRAM TO IMPROVE BALLAST WATER MANAGEMENT	OREGON	0	0	4,630
R/NIS-6 (12193)	ROBERT E. MALOUF Title: REGIONAL RESEARCH AND OUTREACH COORDINATION CENTER FOR NONINDIGENOUS SPECIES IN THE PACIFIC NORTHWEST	OREGON	0	40,000	20,035
R/EE-983 (12048)	T.E. MINCHINTON/M.D. BERTNESS Title: PREDICTING PATTERNS OF SPREAD OF THE COMMON REED PHRAGMITES AUSTRALIS IN COASTAL MARSHES IN RHODE ISLAND	RHODE ISLAND	81,476	0	39,614
R/ES-32 (12195)	ANDREA COPPING/TERRY NOSH Title: REGIONAL RESEARCH AND OUTREACH COORDINATION FOR NONINDIGENOUS SPECIES IN THE PACIFIC NORTHWEST	WASHINGTON	0	37,903	25,741
UNKNOWN (12196)	MIRANDA W. WECKER Title: INTEGRATING BIOLOGICAL CONTROL IN THE INTEGRATED PEST MANAGEMENT PROGRAM FOR SPARTINA ALTERNIFLORA IN WILLAPA BAY	WASHINGTON	0	136,832	46,638

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-98

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
R/ES-32 (12195)	ANDREA COPPING/TERRY NOSHO Title: REGIONAL RESEARCH AND OUTREACH CORDINATION FOR NONINDIGENOUS SPECIES IN THE PACIFIC NORTHWEST	WASHINGTON	10,905	0	0
R/ES-30 (11787)	B. FROST/J. CORDELL/S. BOLLENS Title: EFFECTS OF THE INVASIVE ASIAN COPEPOD PSEUDODIAPTOMUS ON PACIFIC NORTHWEST ESTUARIES	WASHINGTON	195,500	0	97,030
R/ES-24 (11790)	DAVID ARMSTRONG Title: POTENTIAL IMPACTS OF A NONINDIGENOUS CRAB ON SELECTED WEST COAST COMMERCIAL INVERTEBRATES	WASHINGTON	142,505	0	71,364
R/LR-63 (11907)	DAVID EDGINGTON/RUSSEL L. CUHEL/JERRY L. KASTER Title: THE EFFECT OF ZEBRA MUSSEL INFESTATION IN INLAND LAKES ON PELAGIC BENTHIC COUPLING	WISCONSIN	89,628	0	0
R/LR-80 (11899)	DANIEL R. SUTHERLAND Title: ASSESSING THE RISK OF WHIRLING DISEASE BECOMING ESTABLISHED IN THE GREAT LAKES: FIELD AND LABORATORY EVALUATION OF A NOVEL POLYMERASE CHAIN REACTION DIAGNOSTIC ASSAY	WISCONSIN	139,161	0	0
A/AS-41 (11912)	ALLEN H. MILLER Title: TRANSFERRING SEA GRANT ZEBRA MUSSEL RESEARCH AND OUTREACH RESULTS TO THE NATION USING A WORLD WIDE WEB SERVER AND COMPACT DISKS	WISCONSIN	64,986	0	0

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-99

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
R/LR-79 (11908)	CLIFFORD E. KRAFT Title: OPTIMIZING ZEBRA MUSSEL CONTROL AND PREVENTING DISPERSAL THROUGH IMPROVED VELIGER DETECTION USING AN RRNA PROBE	WISCONSIN	59,536	0	0
Number of Projects:	<u>37</u>	<u>Subtotal:</u>	<u>1,972,012</u>	<u>685,030</u>	<u>1,106,821</u>

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-100

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
Category: 104 - CUMULATIVE IMPACTS					
R/PT-5 (11016)	Title: DENISE BRIETBURG ET AL	MARYLAND	0	1,400,000	0
Title: THE IMPORTANCE OF UNDERSTANDING ECOLOGICAL COMPLEXITY TO PREDICTING EFFECTS OF MULTIPLE STRESSORS ON COASTAL SYSTEMS					
R/LS-2 (11744)	Title: ANNE E. HERSHEY	MINNESOTA	0	0	27,000
Title: LAND USE EFFECTS ON STREAM ECOSYSTEM PARAMETERS AND MATERIAL DISCHARGE IN LAKE SUPERIOR TRIBUTARY STREAMS					
Number of Projects:		2	Subtotal:	0	1,400,000
					27,000

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-101

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
Category: 111 - SOCIOECONOMIC DIMENSIONS OF ENVIRONMENTAL CHANGE					
R/P-04 (11695)	MARK SAGOFF	MARYLAND	26,512	0	18,063
Title: ENVIRONMENTAL PROTECTION AND WATERMEN COMMUNITIES: ASSESSING THE EFFECTS OF NEW INITIATIVES ON OLD WAYS OF LIFE					
R/COP-7 (11059)	M. RICHARD DEVOE/GARY S. KLEPPEL	SOUTH CAROLINA	0	175,000	6,260
Title: SOUTH ATLANTIC BIGHT LAND USE COASTAL ECOSYSTEM STUDY (LU-CES)					
R/PS-53 (11909)	THOMAS A. HEBERLEIN	WISCONSIN	18,495	0	4,808
Title: ANALYSIS OF PERSISTENCE AND CHANGE IN APOSTLE ISLAND BOATING 1975-1997					
Number of Projects: 3			<u>Subtotal:</u>	<u>45,007</u>	<u>175,000</u>
					<u>29,131</u>

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-102

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
Category: 112 - COASTAL MANAGEMENT POLICY TOOLS					
R/MA-40 (11955)	HARRY N. SCHEIBER Title: THE NEW REGIONALIZATION IN INTERNATIONAL FISHERIES LAW AND MANAGEMENT	CALIFORNIA	7,046	0	26,473
R/SL-8 (11851)	STEPHEN R.KELLERT Title: CONNECTING ECOLOGICAL AND SOCIAL SYSTEMS: WATERSHED RESEARCH RELATING ECOSYSTEM STRUCTURE AND FUNCTION TO HUMAN VALUES AND SOCIOECONOMIC BEHAVIORS.	CONNECTICUT	45,265	0	84,493
R/C-P-23 (11710)	R. HAMANN Title: THE LEGAL AND INSTITUTIONAL FRAMEWORK FOR REGIONAL COASTAL WATERWAY MANAGEMENT IN SOUTHWEST FLORIDA	FLORIDA	29,136	0	15,000
RT-2/RD2 (12111)	NICHOLAS PATRIKALAKIS Title: POSEIDON: A COASTAL ZONE MANAGEMENT SYSTEM VIA THE WORLD WIDE WEB	MASSACHUSETTS	100,000	0	50,000
R/BS-10 (11766)	DAVID GRIFFITH/JEFFREY JOHNSON Title: ASSESSING COASTAL POPULATION GROWTH: PROJECTED NEEDS AND MANAGEMENT ISSUES	NORTH CAROLINA	16,836	0	7,385
A/CR-972 (11637)	VIRGINIA LEE Title: RESCUE OF HISTORICAL DATA FOR NARRAGANSETT BAY NATIONAL ESTUARINE RESEARCH RESERVE	RHODE ISLAND	0	31,000	0

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-103

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
R/NP-1 (11944)	CLARIE PRINCE/WALLY PETERS Title: WISE INVESTMENTS/SHARED BENEFITS: DEVELOPMENT OF A SUSTAINABLE INFRASTRUCTURE PLANNING MODEL IN A COASTAL REGION	SOUTH CAROLINA	55,614	0	137,582
A/ES-3 (12177)	ANDREA COPPING Title: PRISM OUTREACH AND PATNERSHIPS	WASHINGTON	0	45,000	0
(12178)	ANDREA COPPING Title: PRISM OUTREACH AND PARTNERSHIPS	WASHINGTON	0	40,000	0
A/AS-40 (11914)	STEPHEN J. VENTURA Title: APPLICATIONS OF GIS TO COASTAL ZONE MANAGEMENT - BUILDING LOCAL CAPACITY	WISCONSIN	33,716	0	23,194
Number of Projects: <u>10</u>			<u>Subtotal:</u>	<u>287,613</u>	<u>116,000</u>
					<u>344,127</u>

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-104

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
Category: 113 - MULTIPLE USE MANAGEMENT AND CONFLICT RESOLUTION					
R/ME-3 (11450)	JENNIFER WOLCH Title: ATTITUDES TOWARD MARINE WILDLIFE AMONG RESIDENTS OF SOUTHERN CALIFORNIA'S COAST	SOUTHERN CALIFORNIA	14,376	0	38,162
R/CR-1 (11451)	STEVEN N. MURRAY 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	SOUTHERN CALIFORNIA	42,285	0	26,040
E/ET/C-37 (12022)	DAVID WM. OWENS Title: ENDANGERED MARINE TURTLES: SYMPTOMS OF AN EDUCATIONAL NECESSITY	TEXAS	59,920	0	32,632
R/MS-48 (11788)	CRAIG H. ALLEN/WILLIAM BURKE Title: LEGAL REGIMES APPLICABLE TO HYDROTHERMAL VENT LIVING MARINE RESOURCES	WASHINGTON	22,600	0	31,050
Number of Projects:	4	Subtotal:	139,181	0	127,884

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-105

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
Category: 121 - SEVERE STORMS					
R/C-S-37 (11707)	M. K. OCHI Title: EVALUATION OF NEARSHORE SEA SEVERITY AT HURRICANE LANDING FOR APPLICATION TO FLORIDA COAST	FLORIDA	59,194	0	29,597
A/RE-1 (11698)	M.L. CLARKE/S. GRANTHAM Title: SEA GRANT HAZNET	FLORIDA	9,193	0	4,881
A/HZN-1 (12079)	MARILYN BARRETT O'LEARY Title: SEA GRANT HAZNET	LOUISIANA	10,746	0	4,351
R/CE-122 (11797)	WENDELL BROWN Title: A PROTOTYPE STORM RESPONSE MONITORING AND FORECAST SYSTEM FOR THE WESTERN GULF OF MAINE	MAINE/NEW HAMPSHIRE	62,892	0	23,743
E/O-61 (11676)	SHARON H. WALKER Title: SEA GRANT HAZNET (MASGC COMPONENT)	MISSISSIPPI/ALABAMA	13,765	0	5,709
A/EA-11 (11767)	S. ROGERS/J. D. MURRAY Title: SEA GRANT HAZNET	NORTH CAROLINA	30,806	0	0
A/CR-982 (12041)	VIRGINIA LEE Title: SEA GRANT HAZNET (WITH SO. CAROLINA SEA GRANT ET AL.)	RHODE ISLAND	11,418	0	5,708

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-106

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
A/NO-1 (11942)	ROBERT H. BACON Title: SEA GRANT HAZNET	SOUTH CAROLINA	7,000	0	2,648
A/RE-1 (12031)	DEWAYNE HOLLIN Title: SEA GRANT HAZNET	TEXAS	8,118	0	3,398
Number of Projects: 9		Subtotal:	213,132	0	80,035

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-107

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
Category: 122 - EARTHQUAKES AND TSUNAMIS					
R-122-2-98 (12010)	AURELIO MERCADO	PUERTO RICO	51,093	0	13,173
Title: ESTIMATE OF THE TSUNAMI HAZARD IN THE LESSER ANTILLES FROM LOCAL, EARTHQUAKE-RELATED TSUNAMI SOURCES					
Number of Projects:	1	<u>Subtotal:</u>	<u>51,093</u>	<u>0</u>	<u>13,173</u>

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-108

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
Category: 123 - COASTAL PLANNING AND BUILDING CONSTRUCTION TECHNIQUES					
R/C-P-22 (11709)	R. A. SMITH Title: DEVELOPMENT AND IMPLEMENTATION OF A GAMING SIMULATION OF COMMUNITY PLANNING FOR HURRICANE MITIGATION AND DISASTER RECOVERY	FLORIDA	65,742	0	32,871
R/C-D-17 (11708)	N. YAZDANI Title: POST-STORM MODEL FOR THE RECONSTRUCTION OF HABITABLE COASTAL STRUCTURES	FLORIDA	67,774	0	33,890
E/F-14 (12162)	TIMOTHY W. REINHOLD/BRAIN MICHOT Title: FULL-SCALE WIND LOAD MONITORING TECHNOLOGY DEVELOPMENT AND IMPLEMENTATION	SOUTH CAROLINA	27,286	0	27,286
R/CE-3 (11939)	TIMOTHY A. REINHOLD Title: DEVELOPMENT OF LOW-COST AND SELF-HELP RETROFIT TECHNIQUES FOR REDUCTION OF DAMAGE AND LOSSES IN SEVERE WINDSTORMS	SOUTH CAROLINA	48,924	0	24,505
Number of Projects: 4			<u>Subtotal:</u>	<u>209,726</u>	<u>0</u>
					<u>118,552</u>

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-109

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
Category: 124 - SHORELINE PROCESSES AND EROSION					
R/OE-36 (11956)	RODNEY J. SOBEY Title: WAVE CLIMATE RISK ANALYSIS: SEASONAL TRIPLE ANNUAL MAXIMUM FREQUENCY ANALYSES, WITH INTENSITY-DURATION-FREQUENCY SUMMARIES	CALIFORNIA	37,772	0	29,304
R/CZ-157 (12130)	GARY B. GRIGGS/RICHARD J. SEYMOUR Title: COASTAL CLIFF EROSION IN SAN DIEGO COUNTY, CALIFORNIA	CALIFORNIA	17,563	0	20,000
R/OE-21 (11317)	JAMES T. KIRBY Title: WAVES IN INLETS: WAVE BREAKING ON OPPOSING EBB CURRENTS	DELAWARE	12,400	0	35,730
R/OE-22 (11307)	N. KOBAYASHI Title: PROBABILISTIC MODELING OF SWASH ON BEACHES	DELAWARE	9,284	0	36,516
R/OE-19 (11315)	ROBERT A. DALRYMPLE Title: EDDIES IN THE NEARSHORE ZONE	DELAWARE	5,275	0	50,256
R/P-5 (11312)	G. R. PARSONS/T. D. TOMASI Title: AN ECONOMIC ANALYSIS OF BEACH LOSS	DELAWARE	6,556	0	20,824

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-110

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
R/OE-20 (11316)	I. A. SVENDSEN Title: QUASI-3D ANALYSIS OF THE FLOW IN RIP CURRENTS AND AROUND COASTAL STRUCTURES	DELAWARE	9,796	0	60,217
R/EP-8 (11369)	CHARLES H. FLECTCHER, III Title: MAPPING HISTORICAL SHORELINE CHANGES ON MAUI AND OAHU	HAWAII	51,733	0	0
R/EP-9 (11362)	BECKER, JANET M. Title: DYNAMICAL MODELS OF EROSION AND SAND TRANSPORT FOR ISLAND BEACHES	HAWAII	27,639	0	21,392
R/EP-10 (11370)	CHARLES H. FLETCHER, III Title: WEST MAUI SHOREFACE SEDIMENT DYNAMICS	HAWAII	41,383	0	0
R/SMD-1 (12070)	JOHN DAY/PAUL TEMPLET Title: SYSTEM FUNCTIONING AS THE BASIS FOR SUSTAINABLE MANAGEMENT OF DELTAS	LOUISIANA	55,461	0	41,233
R/CE-231 (11796)	VIJAY PANCHANG Title: FIELD VALIDATION OF A HARBOR WAVE PREDICTION MODEL	MAINE/NEW HAMPSHIRE	41,887	0	13,624
RC-56 (11430)	OLE SECHER MADSEN Title: EFFECT OF SEAWALLS LONGSHORE CURRENTS	MASSACHUSETTS	70,012	0	36,214

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-111

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
R/T-38 (11852)	GUY A. MEADOWS Title: THE RELATIONSHIP BETWEEN GREAT LAKES WATER LEVELS, WAVE ENERGIES AND SHORELINE DAMAGE	MICHIGAN	40,000	0	20,000
R/NP-1 (11930)	RONGXING LI Title: COASTLINE MAPPING AND CHANGE DETECTION USING 1-METER RESOLUTION SATELLITE IMAGERY	OHIO	83,588	0	42,191
(11930)	RONGXING LI Title: COASTLINE MAPPING AND CHANGE DETECTION USING 1-METER RESOLUTION SATELLITE IMAGERY	OHIO	0	20,000	0
R/GS-2 (12138)	PAUL T. GAYES/WILLIAM EISER Title: THE SOUTH CAROLINA BEACH EROSION RESEARCH AND MANAGEMENT (BERM) PROGRAM - YEAR 6	SOUTH CAROLINA	0	125,000	0
R/GS-1 (10233)	LESLIE SAUTTER Title: SOUTH CAROLINA COASTAL EROSION STUDY	SOUTH CAROLINA	0	224,500	100,750
M-2/98.2 (11975)	PHYLLIS GRIFMAN Title: PUBLIC INFORMATION FOR EL NINO PREPARATION AND AWARENESS	SOUTHERN CALIFORNIA	10,000	0	5,775
M-2/98.3 (11974)	JOHN P. WILSON Title: BEACH EROSION AND EL NINO STORM EVENTS	SOUTHERN CALIFORNIA	10,000	0	10,859

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-112

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
R/NI-28 (11910)	FRANK L. SCARPACE/ALAN P. VONDEROHE Title: EROSION INFORMATION SYSTEM IN SUPPORT OF COASTAL ZONE MANAGEMENT AND SCIENCE	WISCONSIN	71,192	0	33,687
R/G-25 (12086)	W. THOMPSON/J. P. DONNELLY Title: IMPACTS OF ACCELERATED SEA LEVEL RISE IN STORM INDUCED SEDIMENTATION OF SOUTHERN NEW ENGLAND COASTAL WETLANDS	WOOD HOLE OCEANOGRAPHIC INST.	0	0	36,771
R/G-27 (12087)	DAVID G. AUBREY Title: MULTIPLE TIDAL INLET STABILITY	WOOD HOLE OCEANOGRAPHIC INST.	42,221	0	53,523
Number of Projects: <u>23</u>		<u>Subtotal:</u>	<u>643,762</u>	<u>369,500</u>	<u>668,866</u>

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-113

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
Category: 131 - VESSEL STABILITY RESEARCH					
R/MT96045	ARMIN TROESCH	INDEPENDENT/OTHER	38,000	0	0
(12120)	Title: TRANSFER OF HIGH-SPEED PLANING CRAFT TECHNOLOGY TO THE PRIVATE SECTOR				
Number of Projects:	1	Subtotal:	38,000	0	0

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-114

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
Category:	134 - RECREATIONAL AND COMMERCIAL DIVING				
R/NI-27	RUDOLPH TASS DUELAND	WISCONSIN	37,993	0	16,220
(11911)	Title: DIVER HEALTH AND SAFETY: MINIMIZING DECOMPRESSION RISK				
Number of Projects:	1	Subtotal:	37,993	0	16,220

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-115

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
Category: 141 - EDUCATION: PRE-COLLEGE					
E/UG-4 (10467)	JAMES SULLIVAN Title: JOHN D. ISAACS MEMORIAL SEA GRANT SCHOLARSHIP	CALIFORNIA	10,000	0	2,962
E/T-9 (11846)	PETER M. SCHEIFELE Title: ADVANCING SCIENCE LEARNING FOR THE DEAF THROUGH MARINE SCIENCE	CONNECTICUT	3,354	0	3,104
E/METCON (10528)	LAWANDA V. PEACE Title: NOAA ENGINEERING/SCIENCE CAREER ORIENTATION PROGRAM	INDEPENDENT/OTHER	0	59,500	29,426
E/ENV-3 (12062)	PAMELA BORNE Title: MARINE EDUCATION RESOURCES	LOUISIANA	38,090	0	13,321
E/O-62 (11675)	DAVID L. SCOTT Title: MAKING AQUATIC CONNECTIONS (PROJECT MAC)	MISSISSIPPI/ALABAMA	20,390	0	19,623
E/O-57 (11524)	JESUS B. TUPAZ Title: PROJECT PATHFINDER: AN INTRODUCTION TO OCEANOGRAPHY AND COASTAL PROCESSES FOR ELEMENTARY AND MIDDLE SCHOOL TEACHERS	MISSISSIPPI/ALABAMA	56,000	0	26,718
E/T-1 (11195)	MICHAEL P. WEINSTEIN Title: NEW JERSEY MARINE SCIENCES CONSORTIUM EDUCATION PROGRAM	NEW JERSEY	39,238	0	17,230

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-116

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
E/TER-1 (11932)	ROSANNE W. FORTNER/VICTOR J. MAYER Title: DEVELOPMENT OF INTERNET-LINKED INSTRUCTIONAL MATERIALS AND TEACHER EDUCATION RESEARCH FOR EARTH SYSTEMS EDUCATION ABOUT THE GREAT LAKES	OHIO	44,407	0	34,422
E/O-14 (11941)	L.R. SAUTTER/A.L. JESSEN Title: TESTING AND EVALUATING A TEACHING MODEL IN MARINE SCIENCE AT THE MIDDLE SCHOOL LEVEL: THE COASTTEAM PROGRAM	SOUTH CAROLINA	36,142	0	20,111
ET/C-38 (12037)	VIOLETTA LIEN Title: FIELD TESTING, REVISION, AND DISSEMINATION OF MARINE EDUCATION RESOURCES MANUAL FOR MIDDLE SCHOOLS	TEXAS	55,030	0	27,715
Number of Projects:	<u>10</u>	<u>Subtotal:</u>	<u>302,651</u>	<u>59,500</u>	<u>194,632</u>

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-117

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
Category: 142 - EDUCATION:UNIVERSITY					
E/70-10 (10685)	R. K. DEARBORN Title: SEA GRANT TRAINEESHIPS	ALASKA	144,843	0	0
E/G-9 (10471)	JAMES SULLIVAN Title: CALIFORNIA SEA GRANT STATE FELLOWSHIP PROGRAM	CALIFORNIA	19,400	0	11,362
E/G-2 (10665)	JAMES SULLIVAN Title: SEA GRANT TRAINEES	CALIFORNIA	485,376	0	60,672
E/DC-18 (11979)	JAMES J. SULLIVAN Title: NATIONAL SEA GRANT FELLOWSHIP	CALIFORNIA	0	36,000	0
E/I-6 (12007)	EDWARD C. MONAHAN Title: KNAUSS MARINE POLICY FELLOWSHIP	CONNECTICUT	0	36,000	0
E/G-1 (10208)	RICHARD W. TARPLEY Title: GRADUATE EDUCATION	DELAWARE	294,258	0	0
E/G-2 (11857)	R. W. TARPLEY Title: KNAUSS SEA GRANT FELLOWSHIPS	DELAWARE	0	36,000	0

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-118

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
E/EDU-1 (11120)	EDITH SCHMIDT Title: MARINE EDUCATION AND TRAINING	GEORGIA	72,899	0	44,818
E/EDU-3 (11191)	DENISE M. STEPHENSON-HAWK Title: HBCU CAPACITY DEVELOPMENT CENTER.	GEORGIA	50,000	0	25,000
E/EDU-2 (11192)	MATTHEW R. GILLIGAN Title: INCREASING DIVERSITY IN MARINE RESEARCH AND EDUCATION	GEORGIA	49,469	0	38,857
O/EDU-4 (12054)	RAWSON, MAC V. Title: KNAUSS MARINE POLICY EDUCATION FELLOWSHIP MARINE RESOURCES UTILIZATION IN GEORGIA - KAREN BUSHAW	GEORGIA	0	36,000	0
E/I-3 (11844)	CHARLES E. HELSLEY Title: DEAN JOHN A. KNAUSS MARINE POLICY FELLOWSHIP (STEPHANIE BAIENSON)	HAWAII	36,000	0	0
E/SGI-I-98 (12101)	DAVID P. PHILLIP E. POPE Title: DEAN JOHN A. KNAUSS POLICY FELLOW: JEFFREY A. STEIN	ILLINOIS/INDIANA	36,000	0	20,286
E/IF-2 (12500)	JACK R. VAN LOPIK Title: DEAN JOHN A. KNAUSS MARINE POLICY FELLOWSHIP	LOUISIANA	35,999	0	0

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-119

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
E/IF-2 (12500)	JACK R. VAN LOPIK Title: DEAN JOHN A. KNAUSS MARINE POLICY FELLOWSHIP	LOUISIANA	0	36,000	0
E/MUR-1 (12063)	CHARLES A. WILSON Title: LOUISIANA UNDERGRADUATE RESEARCH OPPORTUNITIES PROGRAM	LOUISIANA	13,050	0	6,573
E/LCP-1 (12064)	JACK R. VAN LOPIK Title: LABORDE ENDOWED CHAIRED SUPPLEMENT	LOUISIANA	50,000	0	13,681
E/A-10 (10191)	L. LARRIS Title: OPPORTUNITIES FOR UNDERGRADUATE RESEARCH AND DEVELOPMENT IN MARINE SCIENCE AND ENGINEERING	MAINE/NEW HAMPSHIRE	23,001	0	35,758
E/A-19 (12115)	IAN R. DAVISON Title: DEAN JOHN POLICY FELLOW: DOUGLAS HODUM	MAINE/NEW HAMPSHIRE	36,000	0	8,154
E-16(A) (12051)	CHRISTOPHER D'ELIA Title: DEAN JOHN A. KNAUSS MARINE POLICY FELLOWSHIP: KELLY GREENE	MARYLAND	36,000	0	0
(12168)	CAROLYN B. BROOKS Title: PROVIDING INCENTIVES AND QUALITY PROGRAMS TO ATTRACT MINORITIES TO CAREERS IN THE MARINE SCIENCES	MARYLAND	50,000	0	38,392

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-120

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
E-16 (11983)	CHRISTOPHER F. D'ELIA Title: DEAN JOHN A. KNAUSS MARINE POLICY FELLOWSHIP: THOMAS SHYKA	MARYLAND	0	36,000	0
E-1 (10041)	GAIL B. MACKIERNAN Title: SEA GRANT TRAINEE PROGRAM	MARYLAND	126,000	0	16,136
E-16-A (11769)	CHRISTOPHER F. D'ELIA Title: DEAN JOHN A. KNAUSS MARINE POLICY FELLOWSHIP	MARYLAND	0	36,000	0
E-5 (12109)	CAMERON GIFFORD Title: MASSACHUSETTS MARITIME ACADEMY/MIT SEA GRANT FISHERIES PROGRAM	MASSACHUSETTS	49,998	0	77,754
E-01 (10391)	C. CHRYSSOSTOMIDIS Title: MIT SEA GRANT UNDERGRADUATE RESEARCH OPPORTUNITIES PROGRAM	MASSACHUSETTS	25,000	0	12,500
E/I-29 (12050)	RUSSELL A. MOLL Title: KNAUSS SEA GRANT FELLOWSHIP - MICHAEL A. OETKER	MICHIGAN	36,000	0	0
E/T-3 (10420)	MICHAEL MCDONALD Title: MINNESOTA SEA GRANT TRAINEESHIPS	MINNESOTA	225,088	0	0

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-121

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
E/PS-1 (10322)	CORNELIA G. SCHLENK Title: SEA GRANT SCHOLARS	NEW YORK	182,133	0	0
E/I-30 (12034)	JACK S. MATTICE Title: DEAN JOHN A. KNAUSS MARINE POLICY FELLOWSHIP FOR NANCY CRAIG	NEW YORK	0	36,000	0
E/MD/GS-4 (10459)	R.ONALD HODSON Title: SEA GRANT GRADUATE RESEARCH STIPENDS	NORTH CAROLINA	207,480	0	0
E/SGI-23 (12095)	RONALD G. HODSON Title: DEAN JOHN A. KNAUSS POLICY FELLOW: KRISTOPHER PICKLER	NORTH CAROLINA	36,000	0	0
E/SGI-24 (12096)	RONALD G. HODSON Title: DEAN JOHN A. KNAUSS POLICY FELLOW: MATTHEW KENDALL	NORTH CAROLINA	0	36,000	0
E/SGI-22 (12097)	RONALD G. HODSON Title: DEAN JOHN A. KNAUSS FELLOW: KATHERINE COLBORN	NORTH CAROLINA	0	36,000	0
E/I-11 (12052)	REUTTER, JEFFREY/M Title: SEA GRANT KNAUSS FELLOWSHIP PROGRAM - NENG YU	OHIO	0	36,000	0

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-122

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
E/INT-27 (12114)	ROBERT E. MALOUF Title: DEAN JOHN A. KNAUSS MARINE POLICY FELLOWSHIP (DAVID LUND)	OREGON	0	36,000	0
E/M/A-16 (11808)	JAN S.H. AUYONG Title: OREGON STATE FELLOW	OREGON	16,000	0	0
E/RM-01 (11822)	JON L. JACOBSON Title: LIBRARY OUTREACH AND INFORMATION SERVICES IN OCEAN AND COASTAL LAW	OREGON	50,638	0	37,983
E-142-98 (12033)	MANUEL VALDES-PIZZINI Title: DEAN JOHN A. KNAUSS MARINE POLICY FELLOWSHIP, ANDREW W. BRUCKNER	PUERTO RICO	0	36,000	0
E-142-1-98 (12014)	ALIDA ORTIZ/EDGARDO ORTIZ Title: MARINE EDUCATION	PUERTO RICO	55,001	0	53,424
E/F-13 (11697)	M. RICHARD DEVOE Title: MARINE EDUCATION FELLOWSHIPS	SOUTH CAROLINA	0	36,000	0
E/F-11 (11162)	M. RICHARD DEVOE/LINDA J. BLACKWELL Title: A TRAINING AND EDUCATION PROGRAM FOR COASTAL RESOURCE MANAGERS	SOUTH CAROLINA	0	300,000	0

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-123

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
E/M-1 (10406)	SUSAN YODER Title: SEA GRANT GRADUATE STUDENT TRAINEE PROGRAM	SOUTHERN CALIFORNIA	50,000	0	5,000
E/M-4 (11981)	DOUGLAS J. SHERMAN Title: KNAUSS MARINE POLICY FELLOWSHIP FOR B. MELONE	SOUTHERN CALIFORNIA	0	36,000	0
ET/C-24 (12005)	ROBERT R. STICKNEY Title: SEA GRANT INTERNSHIP -1998	TEXAS	36,000	0	0
E/KF-98-1 (11674)	RUSSELL W. CALLENDER Title: DEAN JOHN A. KNAUSS MARINE POLICY FELLOWSHIP - 1998 - FOR REBECCA A. BOGER	VIRGINIA	0	36,000	0
E/I-(B) (11859)	LOUIE ECHOLS Title: KNAUSS SEA GRANT FELLOWSHIPS -ELI WEISSMAN	WASHINGTON	36,000	0	0
E/I-(A) (11858)	LOUIE ECHOLS Title: KNAUSS SEA GRANT FELLOWSHIPS - JOHN FIELD	WASHINGTON	36,000	0	0
E/E-1 (10141)	MARY LOU REEB Title: SPECIAL MARINE EDUCATION PROGRAMS	WISCONSIN	40,251	0	19,562

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-124

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
E/R-18 (12100)	DR. JUDITH E. MCDOWELL Title: WHOI SEA GRANT KNAUSS FELLOW - 1998	WOOD HOLE OCEANOGRAPHIC INST.	36,000	0	0
Number of Projects: <u>50</u>		<u>Subtotal:</u>	<u>2,675,884</u>	<u>876,000</u>	<u>525,912</u>

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-125

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
Category: 143 - EDUCATION:INFORMAL					
E/T-7 (10696)	VALERIE COURNOYER	CONNECTICUT	61,640	0	35,988
Title: PROJECT LISTEN: LONG ISLAND SOUND TEACHER ENHANCEMENT NETWORK					
A-01 (11092)	RICHARD G. MORRIS	MASSACHUSETTS	136,300	0	97,794
Title: MIT SEA GRANT MARINE INDUSTRY COLLEGIUM					
Number of Projects: 2			<u>Subtotal:</u>	<u>0</u>	<u>133,782</u>
			<u>197,940</u>		

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-126

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
Category: 151 - MARINE ADVISORY SERVICE: CORE					
A/71-01 (10688)	D. E. KRAMER Title: ALASKA MARINE ADVISORY PROGRAM	ALASKA	431,672	0	271,599
A/EA-10 (10468)	CHRISTOPHER DEWEES Title: SEA GRANT EXTENSION PROGRAM (SGEP)	CALIFORNIA	648,000	0	414,228
A/E-1 (10697)	NANCY BALCOM/HEATHER CRAWFORD Title: SEA GRANT MARINE ADVISORY PROGRAM	CONNECTICUT	138,990	0	74,906
A/E-3 (10698)	GABOURY BENOIT Title: COASTAL MARINE EXTENSION AGENT INTERNS: DEVELOPMENT AND COORDINATION OF PUBLIC POLICY AND ENVIRONMENTAL EDUCATION	CONNECTICUT	27,449	0	29,015
A/I-1 (10210)	KENT S. PRICE Title: MARINE ADVISORY SERVICE	DELAWARE	254,435	0	337,812
SGEP-12 (11716)	MARION L. CLARKE Title: FLORIDA SEA GRANT EXTENSION PROGRAM	FLORIDA	580,800	0	317,560
A/MAS-1 (11118)	KEITH W. GATES Title: ADVISORY SERVICES - GENERAL	GEORGIA	219,646	0	217,869

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-127

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
A/AS-1 (10828)	BRUCE J. MILLER Title: SEA GRANT EXTENSION SERVICE	HAWAII	585,157	0	305,923
A/CED-02-98 (11872)	WIM WIEWELL Title: COASTAL BUSINESS AND ENVIRONMENT	ILLINOIS/INDIANA	49,860	0	45,311
A/SE-1B-98 (11390)	LADON SWANN Title: SEA GRANT EXTENSION - AQUACULTURE	ILLINOIS/INDIANA	40,516	0	16,065
A/SE-04-98 (11391)	BRIAN MILLER/PHIL PARFITT Title: ILLINOIS-INDIANA SEA GRANT COLLEGE PROGRAM / WATER EDUCATION	ILLINOIS/INDIANA	68,384	0	86,115
UNKNOWN (11793)	ROBERT W. LIGHT Title: PENNSYLVANIA SEA GRANT COHERENT AREA PLAN	INDEPENDENT/OTHER	159,303	0	122,186
A/EXT-1 (12059)	KENNETH J. ROBERTS Title: MARINE EXTENSION PROJECT IN THE LOUISIANA COOPERATIVE EXTENSION SERVICE	LOUISIANA	233,813	0	271,329
A/L-1 (12060)	J. WILKINS/M. WASCOM Title: LEGAL ADVISORY SERVICE	LOUISIANA	77,764	0	48,217

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-128

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
A/MRT-1 (12061)	MICHAEL LIFFMAN Title: ADVISORY SERVICES IN MARINE RECREATION AND TOURISM	LOUISIANA	25,543	0	6,197
A/P-1 (10182)	BRIAN DOYLE Title: SEA GRANT MARINE ADVISORY PROGRAM	MAINE/NEW HAMPSHIRE	439,345	0	211,516
A/T-1 (10040)	DOUGLAS LIPTON Title: SEA GRANT EXTENSION PROGRAM	MARYLAND	210,000	0	115,600
A-3 (12112)	MADELEINE HALL-ARBER Title: CENTER FOR MARINE SOCIAL SCIENCES	MASSACHUSETTS	42,000	0	12,000
A-5 (12110)	JUDITH PEDERSON Title: CENTER FOR COASTAL RESOURCES	MASSACHUSETTS	45,000	0	12,000
A/FP-1 (10834)	JOHN D. SCHWARTZ Title: MICHIGAN SEA GRANT EXTENSION	MICHIGAN	447,281	0	222,262
A/O/SE-1 (10423)	JEFFREY GUNDERSON Title: MINNESOTA SEA GRANT EXTENSION PROGRAM	MINNESOTA	221,175	0	118,935

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-129

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
A/O-9 (11894)	WILLIAM HOSKING Title: ALABAMA SEA GRANT EXTENSION PROGRAM	MISSISSIPPI/ALABAMA	93,695	0	47,031
A/O-9 (10160)	DAVID VEAL Title: MISSISSIPPI SEA GRANT ADVISORY SERVICE PROGRAM	MISSISSIPPI/ALABAMA	80,000	0	102,000
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	709,500	0	360,128
A/EA-10 (10461)	J. D. MURRAY Title: MARINE ADVISORY SERVICE PROGRAM	NORTH CAROLINA	436,144	0	484,753
A/EP-1 (10225)	LEROY J. HUSHAK/JOHN ROHRER Title: OHIO SEA GRANT EXTENSION PROGRAM	OHIO	315,741	0	190,097
A/ESG-4 (11827)	J. L. RASMUSSEN Title: OREGON SEA GRANT EXTENSION PROGRAM	OREGON	640,000	0	735,450

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-130

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
A/M-151-2-98 (12016)	HENRY SMITH/MARCIA TAYLOR Title: U.S. VIRGIN ISLANDS MARINE ADVISORY SERVICES	PUERTO RICO	49,480	0	62,582
M-151-1-98 (12015)	JAVIER VELEZ-AROCHO Title: MARINE ADVISORY SERVICES	PUERTO RICO	133,012	0	137,918
A/CR-981 (11988)	LEE, VIRGINIA Title: SEA GRANT EXTENSION AND COMMUNICATION PROGRAM	RHODE ISLAND	200,000	0	131,116
A/F-981 (11987)	DEALTERIS, JOSEPH Title: SEA GRANT EXTENSION AND COMMUNICATION PROGRAM	RHODE ISLAND	200,000	0	111,253
A/E-1 (10271)	ROBERT H. BACON Title: S. C. MARINE EXTENSION PROGRAM	SOUTH CAROLINA	225,322	0	208,862
A/AE-1 (10408)	PHYLLIS GRIFMAN/SUSAN E. YODER Title: MARINE ADVISORY SERVICES AND EDUCATION	SOUTHERN CALIFORNIA	171,228	0	40,115
A/F-4 (10604)	MIKE HIGHTOWER Title: MARINE ADVISORY SERVICES	TEXAS	440,000	0	245,241

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-131

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
A/EP-1 (10935)	WILLIAM D. DuPAUL Title: VIRGINIA SEA GRANT MARINE ADVISORY PROGRAM	VIRGINA	565,767	0	415,262
A/FP-7 (10755)	MICHAEL SPRANGER Title: WASHINGTON SEA GRANT PROGRAM MARINE ADVISORY SERVICES	WASHINGTON	682,600	0	421,634
A/AS-1 (10137)	ALLEN H. MILLER Title: ADVISORY SERVICES: PROGRAM COORDINATION AND FIELD OFFICES	WISCONSIN	211,031	0	296,934
M/O-2 (12083)	DALE F. LEAVITT/GRAHAM GIESE Title: SEA GRANT EXTENSION PROGRAM	WOOD HOLE OCEANOGRAPHIC INST.	140,571	0	71,500
Number of Projects: <u>39</u>			<u>Subtotal:</u>	<u>10,365,224</u>	<u>0</u>
					<u>7,385,047</u>

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-132

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
Category: 152 - MARINE ADVISORY SERVICE: SPECIAL PROJECTS					
A/S-3 (10470)	JAMES SULLIVAN	CALIFORNIA	39,840	0	3,816
Title: INTERNATIONAL TECHNOLOGY AND INFORMATION TRANSFER PROGRAM IN ASIA-PACIFIC					
R/GOI-1 (12172)	SHARONNE O'SHEA	LOUISIANA	30,668	0	16,285
Title: CAERNARVON AND OYSTER FARMERS: WHAT HAPPENED AND WHAT IT MEANS					
A/P-28 (11632)	DONALD SUNDBERG	MAINE/NEW HAMPSHIRE	0	100,000	25,000
Title: CAPABILITY ASSESSMENT AND COMMERCIALIZATION PLAN					
Number of Projects: 3			<u>Subtotal:</u>	<u>70,508</u>	<u>100,000</u>
					<u>45,101</u>

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-133

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
Category: 161 - COMMUNICATIONS: CORE					
C/A/75-01 (10689)	B.R. BAXTER & K. M. BYERS Title: PUBLIC INFORMATION SERVICES	ALASKA	147,715	0	228,984
C/A/75-01-A (11976)	B. R. BAXTER/K. M. BYERS Title: PUBLIC INFORMATION SERVICES	ALASKA	3,000	0	0
C/A/P-1 (10469)	JAMES SULLIVAN Title: COMMUNICATIONS PROGRAM	CALIFORNIA	326,134	0	71,864
C/M/CP-1 (10701)	MARGARET VAN PATTEN Title: CORE COMMUNICATIONS PROGRAM	CONNECTICUT	125,329	0	0
A/I-5 (10211)	T. L. BRYANT/P. L. DONNELLY Title: SEA GRANT COMMUNICATIONS	DELAWARE	180,777	0	127,162
COMM-4 (11718)	C.T. WADDILL Title: FLORIDA SEA GRANT COMMUNICATIONS PROGRAM	FLORIDA	125,000	0	62,500
C/M/COM-1 (11119)	CHARLOTTE INGRAM Title: COMMUNICATIONS PROGRAM	GEORGIA	184,387	0	0

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-134

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
C/M/C-1 (10629)	PRISCILLA BILLIG Title: THE COMMUNICATIONS PROGRAM	HAWAII	125,000	0	36,000
C/A/SE-02-98 (11388)	ROBIN G. GOETTEL Title: COMMUNICATIONS	ILLINOIS/INDIANA	104,491	0	49,118
A/P-1 (12058)	ELIZABETH COLEMAN Title: PUBLICATION AND INFORMATION DISSEMINATION	LOUISIANA	58,000	0	133,650
C/M/C-1 (10185)	SUSAN WHITE Title: COMMUNICATIONS AND INFORMATION PROGRAM	MAINE/NEW HAMPSHIRE	213,459	0	110,265
C/M-4 (10038)	JACK GREER Title: SEA GRANT COMMUNICATIONS	MARYLAND	165,000	0	98,440
C/A-04 (11095)	CAROLYN A. LEVI Title: MARINE COMMUNICATIONS/INFORMATION SERVICE	MASSACHUSETTS	247,439	0	67,800
C/A/C-1 (11425)	MARGARET BRITT Title: MICHIGAN SEA GRANT COMMUNICATIONS	MICHIGAN	174,550	0	81,838

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-135

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
C/O/SC-1 (11740)	MARIE SALES Title: MINNESOTA SEA GRANT COMMUNICATIONS	MINNESOTA	117,940	0	31,223
C/M/PC-1 (11882)	JANET M. WHYDE Title: PROGRAM COMMUNICATIONS	MISSISSIPPI/ALABAMA	74,595	0	26,346
C/A/S-2 (10582)	KIM KOSKO Title: NEW JERSEY SEA GRANT COMMUNICATIONS	NEW JERSEY	93,119	0	39,744
C/PC-1 (10326)	JULIE M. ZEIDNER Title: COMMUNICATIONS	NEW YORK	104,082	0	0
C/M/D/A-3 (10462)	K. HART Title: PROGRAM COMMUNICATIONS	NORTH CAROLINA	75,239	0	134,030
C/M/P-2 (10226)	JEFFREY REUTTER Title: OHIO SEA GRANT COMMUNICATIONS PROGRAM	OHIO	50,723	0	23,306
C/M/A-13 (10300)	JOSPEH S CONE Title: SEA GRANT COMMUNICATIONS	OREGON	274,833	0	149,230

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-136

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
C/P-161-1-98 (12017)	LAURA COTTE Title: UPRSGCP COMMUNICATIONS/PUBLICATIONS	PUERTO RICO	97,793	0	121,722
A/I-981 (11986)	SCHWARTZ, M. Title: RHODE ISLAND SEA GRANT EXTENSION AND COMMUNICATION PROGRAM	RHODE ISLAND	219,113	0	79,849
C/M/P/M-3 (10273)	LEIGH HANDAL Title: COMMUNICATIONS AND INFORMATION SERVICES	SOUTH CAROLINA	95,108	0	41,526
C/M-3 (10407)	PHYLLIS GRIFMAN Title: COMMUNICATIONS AND PUBLICATIONS	SOUTHERN CALIFORNIA	111,825	0	37,451
C/A/I-1 (10605)	AMY BROUSSARD Title: MARINE INFORMATION SERVICE	TEXAS	177,479	0	106,105
C/A/PC-5 (10756)	NANCY E. BLANTON Title: WASHINGTON SEA GRANT PROGRAM COMMUNICATIONS	WASHINGTON	273,700	0	56,605
C/A/AS-2 (10139)	STEPHEN C. WITTMAN Title: COMMUNICATIONS OFFICE AND SUBPROGRAM COORDINATION	WISCONSIN	190,326	0	216,176

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-137

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
C/A/S-14 (10433)	JUDITH MCDOWELL Title: COMMUNICATIONS, PUBLIC OUTREACH AND EDUCATION	WOOD HOLE OCEANOGRAPHIC INST.	104,234	0	24,762
Number of Projects: <u>29</u>		<u>Subtotal:</u>	<u>4,240,390</u>	<u>0</u>	<u>2,155,696</u>

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-138

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
Category: 162 - COMMUNICATIONS: SPECIAL PROJECTS					
C/A/COM-1 (11525)	CYNTHIA J. MURRAY Title: CONTINUING AND NEW ACTIVITIES OF THE NATIONAL SEA GRANT DEPOSITORY	INDEPENDENT/OTHER	152,247	0	0
M/C-2 (11806)	STEVE ADAMS Title: SEA GRANT MARINE CAREER WEB SITE	MAINE/NEW HAMPSHIRE	4,044	0	0
M-4B (11255)	DAN JACOBS Title: NATIONAL SEA GRANT NETWORK INTERNET PROJECT	MARYLAND	10,000	0	6,666
C/M-4A (10039)	JACK GREER Title: NETWORK MEDIA RELATIONS SPECIALIST	MARYLAND	16,928	0	1,515
A/NO-2 (11943)	L. HANDAL/L. BLACKWELL/K. CHEN Title: THE COMMUNICATOR: ENHANCING SEA GRANT'S OUTREACH EFFECTIVENESS BY BUILDING A MORE COHESIVE AND INFORMED NETWORK	SOUTH CAROLINA	33,750	0	0
P/M-6 (12179)	LINDA J. BLACKWELL Title: AN OVERVIEW AND PUBLIC ACCOUNTING OF SEA GRANT ACCOMPLISHMENTS 1966-1999, AND A NETWORK APPROACH TO DOCUMENTING THEMES FOR THE NEW MILLENNIUM	SOUTH CAROLINA	92,412	0	9,916
P/M-4 (11934)	L.HANDAL/N. BLANTON/J. GREER Title: SEA GRANT NATIONAL MEDIA RELATIONS PROJECT	SOUTH CAROLINA	174,000	0	0

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-139

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
C/A/AS-3 (10140)	RICHARD HOOPS Title: EARTHWATCH PUBLIC SERVICE RADIO PROGRAM	WISCONSIN	46,073	0	46,745
E/R-20 (12092)	M.A. DISPEZIO/T.I. CRAGO Title: THE DEVELOPMENT OF EDUCATIONAL FLASHCARDS AND INTERACTIVE CD-ROM	WOOD HOLE OCEANOGRAPHIC INST.	25,000	0	17,000
E/R-19 (12090)	TRACEY I. CRAGO/STEVE ADAMS Title: SEA GRANT'S MARINE SCIENCE CAREERS WEBSITE	WOOD HOLE OCEANOGRAPHIC INST.	23,958	0	11,729
Number of Projects: <u>10</u>			<u>Subtotal:</u>		
			<u>578,412</u>	<u>0</u>	<u>93,571</u>

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-140

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
Category: 170 - PROGRAM ADMINISTRATION					
M/79-01 (10690)	R. K. DEARBORN Title: PROGRAM ADMINISTRATION	ALASKA	95,021	0	140,784
M/A-1 (10473)	JAMES SULLIVAN Title: MANAGEMENT	CALIFORNIA	297,655	0	123,196
M/PA-1 (10699)	EDWARD C. MONAHAN Title: PROGRAM MANAGEMENT: ADMINISTRATION AND PLANNING	CONNECTICUT	143,311	0	190,849
M/M-1 (10213)	C. THOROUGHGOOD/R. W. TARPLEY Title: PROGRAM MANAGEMENT	DELAWARE	71,760	0	71,956
M/PM-12 (11720)	JAMES C. CATO Title: FLORIDA SEA GRANT COLLEGE MANAGEMENT	FLORIDA	158,000	0	79,513
M/AD-1 (11123)	MAC V. RAWSON, JR. Title: PROGRAM MANAGEMENT	GEORGIA	100,035	0	94,411
M/PM-1 (10630)	CHARLES HELSLEY Title: PROGRAM MANAGEMENT AND ADMINISTRATION	HAWAII	131,770	0	18,000

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-141

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
M/P-01-98A (11384)	PHILLIP E. POPE/BETH BURNETT Title: ILLINOIS-INDIANA SEA GRANT PROGRAM - PROGRAM MANAGEMENT	ILLINOIS/INDIANA	48,000	0	156,463
M/P-02-98 (11387)	JOHN B. BRADEN/PHILLIP E. POPE Title: ILLINOIS-INDIANA SEA GRANT RESEARCH PROPOSAL COORDINATION	ILLINOIS/INDIANA	17,000	0	34,139
UNKNOWN (12124)	STEVEN G. OLSON Title: ADMINISTRATIVE COSTS FOR FY-1998.	INDEPENDENT/OTHER	227,162	0	0
M/A-1 (12056)	VAN LOPIK/BECKER/LIFFMAN Title: PROGRAM MANAGEMENT	LOUISIANA	40,712	0	259,562
(10183)	IAN DAVISON Title: PROGRAM MANAGEMENT	MAINE/NEW HAMPSHIRE	192,296	0	195,024
M-1 (10036)	CHRISTOPHER F. D'ELIA Title: SEA GRANT COLLEGE MANAGEMENT	MARYLAND	69,414	0	82,666
M/PM-1 (10395)	CHRYSSOSTOMOS CHRYSSOSTOMIDIS Title: SEA GRANT COLLEGE PROGRAM MANAGEMENT	MASSACHUSETTS	170,187	0	233,606

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-142

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
M/PM-1 (10832)	RUSSELL A. MOLL Title: MICHIGAN SEA GRANT ADMINISTRATION	MICHIGAN	74,214	0	178,316
M/O/SE-2 (11328)	MICHAEL MCDONALD Title: MINNESOTA SEA GRANT OUTREACH/MANAGEMENT PROGRAM	MINNESOTA	149,074	0	0
M/P-1 (10425)	MICHAEL MCDONALD Title: MINNESOTA SEA GRANT MANAGEMENT	MINNESOTA	79,723	0	36,339
M/PA-1 (11249)	JESUS B. TUPAZ Title: PROGRAM PLANNING AND DEVELOPMENT	MISSISSIPPI/ALABAMA	291,185	0	59,613
M/PA-1 (10156)	JESUS B. TUPAZ Title: PROGRAM ADMINISTRATION	MISSISSIPPI/ALABAMA	90,303	0	38,624
M/M-1 (10584)	MICHAEL P. WEINSTEIN Title: PROGRAM MANAGEMENT	NEW JERSEY	175,619	0	92,930
M/P/PPM-1 (10325)	ANNE E. MCELROY Title: PROGRAM MANAGEMENT	NEW YORK	226,489	0	283,318

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-143

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
M/D/A-1 (10464)	RONALD HODSON Title: PROGRAM MANAGEMENT AND DEVELOPMENT	NORTH CAROLINA	131,183	0	0
M/P-1 (10227)	JEFFREY M. REUTTER Title: ADMINISTRATION OF THE OHIO SEA GRANT COLLEGE PROGRAM	OHIO	92,504	0	108,449
M/A-1 (10298)	ROBERT E. MALOUF Title: PROGRAM MANAGEMENT	OREGON	155,170	0	306,248
P-170-1-98 (12018)	MANUEL VALDES-PIZZINI Title: PROGRAM ADMINISTRATION	PUERTO RICO	78,632	0	108,944
M/PM-981 (12039)	S. NIXON/E. YODER/K. CASTRO Title: PROGRAM MANAGEMENT	RHODE ISLAND	291,485	0	0
M/P/M-1 (10272)	M. RICHARD DEVOE Title: PROGRAM MANAGEMENT	SOUTH CAROLINA	95,539	0	37,611
M/P/M-1B (12055)	M. RICHARD DEVOE Title: PROGRAM MANAGEMENT	SOUTH CAROLINA	45,950	0	0

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-144

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
M/1 (10409)	DOUGLAS SHERMAN Title: ADMINISTRATION AND MANAGEMENT	SOUTHERN CALIFORNIA	32,701	0	81,151
M-1 (10606)	ROBERT STICKNEY Title: PROGRAM ADMINISTRATION	TEXAS	224,803	0	152,679
M/AD-1 (10936)	WILLIAM L. RICKARDS Title: VIRGINIA SEA GRANT COLLEGE - PROGRAM ADMINISTRATION	VIRGINIA	212,386	0	60,000
M-1 (10757)	LOUIE S. ECHOLS Title: MANAGEMENT OF THE WASHINGTON SEA GRANT PROGRAM	WASHINGTON	163,200	0	0
M/SGA-2 (10143)	ANDERS W. ANDREN Title: PROGRAM MANAGEMENT	WISCONSIN	150,080	0	158,711
M/O-1 (10432)	JUDITH MCDOWELL Title: PROGRAM MANAGEMENT	WOOD HOLE OCEANOGRAPHIC INST.	109,931	0	142,621
Number of Projects: <u>34</u>			<u>Subtotal:</u>	<u>4,632,494</u>	<u>0</u>
					<u>3,525,723</u>

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-145

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
Category: 180 - PROGRAM DEVELOPMENT					
M/81-01 (10691)	R. K. DEARBORN Title: PROGRAM DEVELOPMENT AND RAPID RESPONSE	ALASKA	23,412	0	0
M/81-02 (11399)	R. K. DEARBORN Title: REGIONAL PROGRAM DEVELOPMENT	ALASKA	20,000	0	0
M/P-1 (10472)	JAMES SULLIVAN Title: PLANNING AND DEVELOPMENT	CALIFORNIA	165,547	0	42,951
M/R/NP-1 (10673)	JAMES SULLIVAN Title: RAPID RESPONSE CAPABILITY	CALIFORNIA	397,740	0	14,000
M/PD-4 (11253)	EDWARD C. MONAHAN Title: MULTI-PROGRAM AND REGIONAL INITIATIVES	CONNECTICUT	100,000	0	0
M/PD-1 (10700)	EDWARD C. MONAHAN Title: PROGRAM DEVELOPMENT	CONNECTICUT	35,000	0	0
M/M-2 (10212)	CAROLYN A. THOROUGHGOOD Title: PROGRAM DEVELOPMENT	DELAWARE	147,638	0	0

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-146

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
M/PD-10 (11719)	JAMES C. CATO Title: COASTAL SCIENCE AND TECHNOLOGY INNOVATION WITH LIMITED FUNDS: THE FLORIDA SEA GRANT COLLEGE PROGRAM DEVELOPMENT PORTFOLIO	FLORIDA	74,422	0	0
(12126)	JAMES C. CATO Title: COASTAL SCIENCE AND TECHNOLOGY INNOVATION WITH LIMITED FUNDS: THE FLORIDA SEA GRANT COLLEGE PROGRAM DEVELOPMENT PORTFOLIO	FLORIDA	31,000	0	0
M/AD-2 (11124)	MAC V. RAWSON, JR. Title: PROGRAM DEVELOPMENT	GEORGIA	144,494	0	116,820
M/PM-2 (10631)	CHARLES HELSLEY Title: PROGRAM DEVELOPMENT	HAWAII	24,971	0	15,552
M/P-01-98B (11386)	PHILLIP E. POPE Title: ILLINOIS-INDIANA SEA GRANT PROGRAM - PROGRAM DEVELOPMENT	ILLINOIS/INDIANA	13,434	0	0
M/A-2 (12057)	J. VAN LOPIK/ R. BECKER Title: PROGRAM DEVELOPMENT	LOUISIANA	79,500	0	33,848
M/A-2A (12076)	TBA Title: PROGRAM DEVELOPMENT	LOUISIANA	49,724	0	6,702

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-147

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
M/D-1 (10184)	ANN BUCKLIN Title: PROGRAM DEVELOPMENT	MAINE/NEW HAMPSHIRE	103,061	0	39,852
M/D-3 (11276)	IAN DAVISON Title: PROGRAM DEVELOPMENT	MAINE/NEW HAMPSHIRE	61,953	0	27,880
M-3 (10037)	CHRISTOPHER F. D'ELIA Title: PROGRAM DEVELOPMENT	MARYLAND	61,000	0	29,206
M/PM-2 (10396)	CHRYSSOSTOMOS CHRYSSOSTOMIDIS Title: PROJECT DEVELOPMENT OPPORTUNITIES	MASSACHUSETTS	186,836	0	93,464
(11057)	RUSSELL A. MOLL/WILLIAM W. TAYLON Title: MICHIGAN SEA GRANT PROGRAM DEVELOPMENT	MICHIGAN	69,000	0	0
M/P-2 (11792)	DR. MICHAEL E. MCDONALD Title: MINNESOTA SEA GRANT PROGRAM DEVELOPMENT	MINNESOTA	13,000	0	0
M/P-3 (11749)	MICHAEL MCDONALD Title: SHIP TIME	MINNESOTA	0	0	42,250

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-148

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
M/M-2 (10583)	MICHAEL P. WEINSTEIN Title: PROGRAM DEVELOPMENT	NEW JERSEY	51,879	0	0
MM-2 (11874)	MICHAEL P. WEINSTEIN Title: MERP	NEW JERSEY	52,011	0	125,000
I/PIU-4 (11739)	JACK S. MATTICE Title: REGIONAL AND/OR MULTIPROGRAM PROJECTS	NEW YORK	73,600	0	0
M/I/PIU-1 (10327)	ANNE E. MCELROY Title: PROGRAM DEVELOPMENT	NEW YORK	145,951	0	0
MD/A-2 (12098)	RONALD G. HODSON Title: PROJECT INITIATION AND DEVELOPMENT CAPABILITY	NORTH CAROLINA	25,000	0	0
M/D/A-2 (10465)	RONALD HODSON Title: PROJECT INITIATION AND RAPID RESPONSE CAPABILITY	NORTH CAROLINA	50,000	0	0
M/D-1 (11933)	JEFFREY. M. REUTTER Title: OHIO SEA GRANT PROGRAM DEVELOPMENT--REGULAR	OHIO	97,000	0	0

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-149

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
M/D-2 (11410)	JEFFREY M. REUTTER Title: OHIO SEA GRANT PROGRAM DEVELOPMENT - REGIONAL	OHIO	80,000	0	0
M/A-2 (10299)	ROBERT E. MALOUF Title: PROGRAM DEVELOPMENT	OREGON	314,536	0	0
M/A-4 (11840)	ROBERT E. MALOUF Title: PROGRAM DEVELOPMENT	OREGON	6,500	0	0
M/A-2 (11980)	JAN AUYONG Title: PROGRAM DEVELOPMENT	OREGON	36,000	0	0
MPRD-98 (12013)	MANUEL VALDES-PIZZINI Title: MULTI-PROGRAM AND REGIONAL DEVELOPMENT	PUERTO RICO	73,048	0	0
P-180-1-98 (12019)	MANUEL VALDES-PIZZINI Title: PROGRAM DEVELOPMENT	PUERTO RICO	32,734	0	15,000
M/PD-981 (11985)	NIXON, SCOTT W. Title: PROGRAM DEVELOPMENT	RHODE ISLAND	93,020	0	0

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-150

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
M/P/M-2 (10274)	M. RICHARD DEVOE Title: PROGRAM DEVELOPMENT	SOUTH CAROLINA	110,390	0	15,000
M/2 (10410)	DOUGLAS SHERMAN Title: PROGRAM DEVELOPMENT	SOUTHERN CALIFORNIA	125,798	0	6,544
M-2A (12038)	ROBERT R. STICKNEY Title: SEA GRANT RAPID RESPONSE PROJECT	TEXAS	29,000	0	0
M-2 (10607)	ROBERT R. STICKNEY Title: PROGRAM DEVELOPMENT	TEXAS	25,080	0	0
M-3 (11330)	ROBERT R. STICKNEY Title: REGIONAL INITIATIVES	TEXAS	80,000	0	37,289
E/M/AD-3 (11183)	GEORGE BURBANCK/R. JORDAN Title: HAMPTON UNIVERSITY RESEARCH CAPABILITY ENHANCEMENT PROJECT: DEVELOPMENT OF A UNIFIED, LONG-TERM RESEARCH PROGRAM	VIRGINA	50,000	0	25,000
M/AD-2 (10937)	WILLIAM L. RICKARDS Title: PROJECT DEVELOPMENT AND PROBLEM RESPONSE CAPABILITY	VIRGINA	175,384	0	0

1998 SEA GRANT - PROJECT LISTING BY CATEGORY

4-151

PROJECT NO	PI NAME	PROGRAM	SEA GRANT	PASSTHRU	MATCHING
M-2 (10758)	LOUIE S. ECHOLS Title: PROGRAM DEVELOPMENT	WASHINGTON	147,000	0	0
M/SGA-1 (10142)	ANDERS W. ANDREN Title: PROGRAM DEVELOPMENT	WISCONSIN	129,400	0	40,294
M/SGA-3 (11346)	ANDERS W. ANDREN Title: SHIP TIME IN SUPPORT OF SEA GRANT RESEARCH PROJECTS	WISCONSIN	0	0	35,040
M/O-5 (10435)	JUDITH E. MCDOWELL Title: PROGRAM DEVELOPMENT	WOOD HOLE OCEANOGRAPHIC INST.	28,800	0	0
Number of Projects:	<u>46</u>	Subtotal:	<u>3,833,863</u>	<u>0</u>	<u>761,692</u>
TOTAL PROJECTS:	<u>794</u>	TOTAL:	<u>52,989,099</u>	<u>12,039,865</u>	<u>30,734,290</u>

Note 1 - v : 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>SEA GRANT</i>	<i>MATCHING</i>	<i>SEA GRANT</i>	<i>MATCHING</i>	<i>SEA GRANT</i>	<i>MATCHING</i>	<i>%BSF</i>	<i>%SHC</i>
ALASKA	837,913	93,253	237,248	150,199	720,820	641,367	78	22
CALIFORNIA	563,663	422,526	2,244,329	1,277,377	1,874,916	670,055	20	80
CONNECTICUT	11,200	0	293,321	199,396	570,079	294,770	4	96
DELAWARE	179,873	182,474	443,085	300,723	654,610	536,930	29	71
FLORIDA	579,979	277,285	837,978	345,891	969,222	459,573	41	59
GEORGIA	320,418	104,296	511,885	246,185	648,562	429,100	38	62
HAWAII	564,516	215,274	869,893	670,831	866,898	375,475	39	61
ILLINOIS/INDIANA	118,416	52,761	488,424	244,145	341,685	387,211	20	80
INDEPENDENT/OTHER	1,062,836	311,475	1,456,489	128,679	538,712	122,186	42	58
LOUISIANA	1,019,722	471,637	1,237,948	499,997	595,724	775,790	45	55
MAINE/NEW HAMPSHIRE	2,566,712	343,234	922,239	150,247	1,114,158	609,537	74	26
MARYLAND	784,832	414,792	2,757,326	382,748	532,342	334,093	22	78
MASSACHUSETTS	278,300	161,418	945,853	584,257	691,462	418,870	23	77
MICHIGAN	363,955	196,721	89,789	28,799	765,045	482,416	80	20
MINNESOTA	94,447	89,490	284,778	179,803	580,912	228,747	25	75
MISSISSIPPI/ALABAMA	546,103	131,983	407,295	357,685	629,778	273,614	57	43
NEW JERSEY	149,889	96,202	354,242	379,058	497,628	324,200	30	70
NEW YORK	453,537	298,598	1,252,074	437,932	1,259,622	643,446	27	73
NORTH CAROLINA	496,380	295,388	529,715	46,572	717,566	618,783	48	52
OHIO	59,031	38,920	506,564	308,154	635,968	321,852	10	90
OREGON	693,283	230,900	514,210	235,957	1,427,039	1,190,928	57	43

	BUILD SUSTAINABLE FISHERIES (BSF)		SUSTAIN HEALTHY COASTS (SHC)		NOT ALLOCATED - MANAGEMENT, OUTREACH, OTHER			
	SEA GRANT	MATCHING	SEA GRANT	MATCHING	SEA GRANT	MATCHING	%BSF	%SHC
PUERTO RICO	133,234	108,318	311,087	217,841	464,699	446,166	30	70
RHODE ISLAND	547,029	295,442	671,769	377,416	1,003,618	322,218	45	55
SOUTH CAROLINA	369,499	203,186	2,105,049	670,233	872,471	312,915	15	85
TEXAS	416,401	178,729	544,165	235,789	976,362	541,314	43	57
VIRGINIA	773,173	407,200	561,018	50,000	1,003,537	500,262	58	42
WASHINGTON	1,498,517	229,066	1,480,033	848,959	1,266,500	478,239	50	50
WISCONSIN	587,678	275,519	1,025,895	330,581	726,910	793,900	36	64
WOOD HOLE OCEANOGRAPHIC IN	257,266	138,255	650,142	371,872	432,494	267,612	28	72
TOTAL:	11,902,563	6,262,342	17,055,197	10,257,326	23,279,339	13,801,569	41.10%	58.90%

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.