

COASTAL
AMERICA ...

A
PARTNERSHIP
FOR
ACTION



REINVENTING
OUR APPROACH TO
COASTAL
RESTORATION AND
PROTECTION

1998
COASTAL AMERICA
PROGRESS REPORT

“Coastal America has truly made a significant contribution to the restoration and protection of our coastal environment - thousands of acres of wetlands have been restored, hundreds of miles of spawning streams have been re-established, non-point sources of pollution have been reduced and endangered species have been protected...thanks to the commitment of the federal, state, local and non-governmental partners that make this collaborative process work.”

*Robert Perciasepe,
Former Chair,
Coastal America
and Assistant
Administrator,
EPA*

*Farewell
Comments
September 1998*

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COASTAL AMERICA PARTNERS

**Department of Agriculture
Department of the Air Force
Department of the Army
Department of Commerce
Department of Defense
Department of Energy
Department of Housing and Urban Development
Department of the Interior
Department of the Navy
Department of Transportation
Environmental Protection Agency
Executive Office of the President**

“Thanks for building a government that works better and costs less.”

*Al Gore,
Vice President*

*Hammer Award
Presented to
Coastal America
September 1998*

I. INNOVATIONS IN THE PARTNERSHIP

THE PROCESS

The Coastal America partnership was created to address the most critical coastal environmental issues facing our country. It is an action-oriented, results-driven process aimed at restoring and preserving our vital coastal ecosystems. It brings the resources, expertise and authorities of the federal resource, infrastructure and military agencies together with state, local, tribal and nongovernmental organizations to form a resourceful, action-based enterprise that is a true partnership initiative—not just another program. This cooperative effort among the federal partner agencies was established by a Memorandum of Understanding and includes the Departments of Agriculture, Air Force, Army, Commerce, Defense, Energy, Housing and Urban Development, Interior, Navy, Transportation, the Environmental Protection Agency and the Executive Office of the President.

The partnership operates through a national, regional and local team structure that brings together key participants. This collaborative multi-agency structure enables national policy matters to be identified and resolved; regional plans to be developed; and local projects to be initiated and completed in a timely and cost-efficient manner.

AT THE NATIONAL LEVEL

A Principals Group consisting of the Under or Assistant Secretaries from the federal partner agencies addresses national policy issues. Senior level representatives from the headquarters of the federal partner agencies make up the National Implementation Team, which meets monthly to implement the policy directives of the Principals Group and promote collaboration among the participating agencies. This approach results in identification of issues and fosters an effective means to address them by senior level policy-makers and program managers.

AT THE REGIONAL LEVEL

Regional Implementation Teams comprised of senior regional managers of the federal partner agencies develop regional strategies. These strategies serve as the basis for program initiatives and the selection of site-specific coastal projects. This joint regional planning process is influenced by the need for sustainable development and, as a result, incorporates environmental as well as economic objectives into regional development plans. The teams periodically report to their Regional Principals to seek additional guidance.

AT THE LOCAL LEVEL

Local projects are implemented by partnership teams representing the stakeholders. These local teams combine the resources and skills of the federal, state and local agencies with relevant nongovernmental endeavors. This cooperative approach promotes cost-effective, creative solutions and results in achievements which no single organization could accomplish alone. Infrastructure rehabilitation and improvements are often the starting point for these restoration and protection efforts. Working in partnership, thousands of acres of wetlands are being restored, hundreds of miles of streams for anadromous fish populations are being reestablished, and endangered marine mammals, birds and fish are being protected.

THE PARTNERSHIP

Coastal America has continued to serve as a model of how cooperative partnership endeavors can bring about results. On September 18, 1998, Coastal America received the Vice President's Hammer Award. The Coastal America Partnership has truly made significant contributions in support of the President's National Performance Review which emphasizes:

- putting customers first,
- cutting red tape,
- empowering employees and
- getting back to basics.

Coastal America will continue to break down walls among federal agencies.

NATIONAL LEVEL

Coastal America was actively involved in the activities and programs generated in the Year of the Ocean. The Year of the Ocean was sponsored by the United Nations and was an international effort to increase the public's understanding of ocean resources and to ensure that governments do all they can to promote the sustainable use, conservation and exploration of the oceans. Six of the Coastal Ecosystem Learning Centers participated as downlink sites and hosted workshops in conjunction with the National Ocean Conference on June 11-12, 1998. Coastal America also arranged for 33 sites across the country to broadcast the plenary sessions. These plenary sessions, chaired by the President and Vice President, served as the starting point for discussions of coastal and marine issues. In addition, Coastal America sponsored lectures at the learning centers by renown scientists and ocean explorers including Dr. John Reynolds, Dr. Sylvia Earle, Dr. Roger Payne and Dr. Robert Ballard.

The Coastal America Principals Group met on May 20, 1998, and on December 9, 1998. They discussed the role of Coastal America in supporting several Administration initiatives, including the Clean Water Action Plan and implementation of the recommendations from the National Ocean Conference. The National Implementation Team met monthly and remained actively involved in addressing national policy issues and providing a framework for the Coastal America process. A continuing focus on education/outreach activities resulted in the designation of four more Coastal Ecosystem Learning Centers in 1998.



Dr. James Baker, Under Secretary of Commerce; Mr. Robert Perciasepe, Assistant Administrator, Environmental Protection Agency; and Ms. Katie McGinty, Chair, Council on Environmental Quality at Hammer Award Ceremony.

In September 1998, Coastal America held its annual retreat in Cooper Landing, Alaska. Several new initiatives were presented, including the newly-established Scientific and Technical Workgroup and opportunities to expand the Coastal America Web page. Recommendations to increase awareness of the Coastal America process include more active focus in each of the partner agencies and more active outreach to potential nongovernmental partners.

I. INNOVATIONS IN THE PARTNERSHIP

“As part of the International Year of the Ocean, a large number of initiatives have been launched to tell people about the threats to the ocean’s biodiversity. We need to balance the reports of threats with hope that is rooted in success stories which provide direction for future action.”

*Jerry R. Schubel,
President,
New England
Aquarium*

*New England
Workshop,
National Ocean
Conference
June 1998*

REGIONAL LEVEL

The Regional Implementation Teams (RITs) have addressed those issues that are unique to their regions and also those common elements such as restraints on time and competing interests. Internally, the RITs continue to further educate member agencies about the partnership opportunities available to them and, in the process, clarify and define the Coastal America partnership approach. During 1998, several regions convened Regional Principals meetings to provide the RITs further guidance.

The Northeast Regional Principals met at the Naval Reserve Center in Portland, Maine on September 23, 1998. The leading issues were the support of the Principals for habitat restoration for Atlantic salmon, an overview of the U.S. Fish and Wildlife Service’s (USFWS) coastal program restoration sites, an update on the Casco Bay National Estuary Program, an overview of the New England Aquarium ecological and education initiatives and a presentation of TEA-21 (Transportation Efficiency Act for the 21st Century) programs.

The Southeast Natural Resources Leaders Group, comprised of the regional heads of nine federal agencies with natural resource/environmental responsibilities, serves as the Southeast RIT’s Regional Principals Group. They meet on a quarterly basis to address a broad array of natural resources related issues, including those upon which the Southeast RIT is focused. The Southeast RIT provides status reports on team activities and projects, seeks guidance and requests support for new Coastal America initiatives.

The Northwest RIT held its second Regional Principals Group meeting in conjunction with the designation of the Hatfield Marine Science Center on May 8, 1998. The Regional Principals discussed several potential projects and the value of the Coastal America partnership “tool box.”

In conjunction with the Alaska SeaLife Center designation, the Alaska Regional Principals met for the first time on September 28, 1998. Terry Garcia, Chair, Coastal America, encouraged the Regional Principals to utilize the partnership to address regional problems. He asked that they discuss the National Ocean Conference Alaska workshop recommendations and identify priorities for action. The Principals identified several key problem areas.

ACCOMPLISHMENTS TO DATE

- ◇ Collaborative partnership process established.
- ◇ Consensus reports on key issues published.
- ◇ Over 300 projects in 26 states, underway or completed.
- ◇ Over 350 non-federal partners participating.
- ◇ Network of 9 Coastal Ecosystem Learning Centers established.

COASTAL ECOSYSTEM LEARNING CENTERS

Realizing the increased public interest in coastal ecosystems and the continued importance of an informed public, the Coastal America partnership has established a national network of Regional Coastal Ecosystem Learning Centers. This approach addresses the growing number of requests from the public for more information on coastal ecosystems. Coastal America's federal partners have a wide variety of resources that can be utilized by the Coastal Ecosystem Learning Centers, including expert speakers on unique programs and topics, educational publications, lesson plans and films. By extending the partnership to these private facilities and sharing the expertise and materials of the Coastal America partners, a more productive coastal information network has been created to facilitate public awareness of the value of our coastal resources.

In support of the Year of the Ocean, six of the learning centers served as downlink sites for a satellite broadcast of the plenary sessions of the National Ocean Conference. On June 11, 1998, the plenary session chaired by the Vice President included discussions on a number of issues including Global Security, Education, Environment and Commerce. The June 12 plenary broadcast included presentations by several elected officials, including President Clinton. The learning centers each hosted programs with regional stakeholders to discuss the issues as they apply in their region. Several sites developed regional recommendations that are now being reviewed by the Regional Principals for potential implementation.

Four learning centers were added to the network in 1998, bringing the total to nine facilities. The new learning centers are: the Monterey Bay Aquarium, designated in January; the Texas State Aquarium, designated in March; the Hatfield Marine Science Center, designated in May; and the Alaska SeaLife Center, designated in September. Commitments to these facilities included:

- highway signs directing travelers to the Monterey Bay Aquarium;
- whale baleen, a walrus head mount and a marbled murrelet for use in educational programs;
- links between learning center web sites and several federal web sites; and
- ship time on Environmental Protection Agency (EPA) and National Oceanic and Atmospheric Administration (NOAA) vessels for educational programs and research.

The New England Aquarium, in cooperation with Coastal America partner staff, conducted a teacher sabbatical program with teachers from inner city Boston schools. The week-long program included presentations from the Corps of Engineers, and a wetland field trip led by EPA staff.

In addition, East Coast and West Coast Workshops were held with learning center staff and representatives of the federal partner agencies to discuss additional opportunities for collaboration.



Satellite downlink of National Ocean Conference at the National Aquarium in Baltimore, Maryland.

“Coastal Ecosystem Learning Centers are powerful antidotes to ignorance.”

*Sylvia Earle,
Ocean Explorer*

*Monterey Bay
Aquarium
Designation
January 1998*

MONTEREY BAY AQUARIUM

The Monterey Bay Aquarium in Monterey, California, was designated as the nation’s first Coastal Ecosystem Learning Center on the west coast on January 27, 1998. Dr. Sylvia Earle, renowned ocean explorer, emphasized the importance of education in protecting marine resources, and the value of the partnership between the Aquarium and the federal partners. Mr. Robert B. Pirie, Jr., Assistant Secretary of the Navy for Installations and Environment, was the designating official. He stated, “By ourselves, the problems seem overwhelming, while together we can manage resources to meet the growing public need for coastal education. Today’s ceremony celebrates this partnership.”

TEXAS STATE AQUARIUM

The Texas State Aquarium in Corpus Christi, Texas, was designated on March 30, 1998. Speakers included State Senator Carlos Truan and Ms. Sally Davenport, Associate Deputy for Resource Management, Texas General Land Office. Senator Truan, Dean of the Texas Senate, remarked that “Coastal America is a flagship program which just makes sense...coordinating across agency lines works.” Mr. Michael Davis, Deputy Assistant Secretary of the Army for Civil Works, was the designating official.

HATFIELD MARINE SCIENCE CENTER

The eighth Coastal Ecosystem Learning Center was designated at the Hatfield Marine Science Center, Newport, Oregon, on May 8, 1998. Keynote speakers at the designation ceremony included Gary George, Oregon State Senator, and Nancy Leonard, Lincoln County Commissioner. The Principals Group was represented by Mr. Thomas “Tad” McCall, Deputy Assistant Secretary of the Air Force for Environment, Safety and Environmental Health. The Center is a Sea Grant facility, and is the first of its kind to be designated as a learning center.

ALASKA SEALIFE CENTER

The Alaska SeaLife Center was designated on September 28, 1998 in Seward, Alaska. Mike Navare, Kenai Peninsula Borough Mayor, and Ms. Molly McCammon, Executive Director, *Exxon Valdez* Oil Spill Trustee Council, expressed their pleasure with the designation, and their support of the partnership program. Mr. Terry Garcia, Assistant Secretary of Commerce for Oceans and Atmosphere, was the designating official. The NOAA ship *Rainier* was docked at the Center for tours on the day of the designation.



NOAA ship Rainier at the Alaska SeaLife Center designation.

PARTNERSHIP AWARDS PROGRAM

In 1998, Coastal America continued its Partnership Awards Program which recognizes outstanding partnership efforts or multi-agency projects designed to protect and restore coastal ecosystems. The intent of the awards is to recognize those innovative and unique efforts which could only be achieved through a collaborative partnership endeavor. At least three federal agencies must have been involved in the process/activity being recognized with state and local government and/or private sector, or NGO involvement viewed as an added benefit. Four awards were presented this year. Award plaques and letters of congratulations from Vice President Albert Gore were presented at award ceremonies throughout the country.

COASTAL ECOSYSTEM LEARNING CENTER WORKGROUP

The Coastal Ecosystem Learning Center Workgroup was recognized for developing the innovative partnership between the federal government and aquariums. The workgroup developed the concept, designed the program, and surmounted all hurdles to create the network. The first five learning centers joined the network before the benefits of the program were clear. The awards went to representatives of federal agencies involved in developing the network and representatives of the first five learning centers.

NINIGRET NATIONAL WILDLIFE REFUGE RESTORATION TEAM

The Ninigret National Wildlife Refuge was formed from part of the Charlestown Naval Auxiliary Landing Field in Rhode Island. Unfortunately, nearly 70 of the 400 acres were covered by aging asphalt runways, effectively precluding any large scale restoration efforts of the coastal sandplain grassland habitat that once covered the refuge. The restoration team created an innovative partnership, using a military reserve unit to remove 19 acres of the runway as a training exercise. This saved the Fish and Wildlife Service hundreds of thousands of dollars and provided valuable experience for the U.S. Army Reserve Unit.

COCKROACH BAY RESTORATION ALLIANCE

The Cockroach Bay Restoration Alliance (COBRA) is a partnership of federal, state and local agencies and private entities, spearheaded by the Surface Water Improvement and Management (SWIM) program of the Southwest Florida Water Management District. Through the team's efforts, 115 acres of coastal and wetland habitat have been successfully restored, and the team is working to restore an additional 385 acres. A variety of habitats have been created, providing diverse habitats for an array of species, many of them endangered. This action-oriented partnership has leveraged funds from a variety of sources and has involved the local community with thousands of volunteers assisting in the restoration efforts.



Mr. Terry Garcia presents the 1998 Partnership Award to Dr. Brandt Henningsen, Chair of COBRA.

“With your corporate support, a public-private partnership effort was established to remove the Quaker Neck Dam and restore fish migration to the Neuse River. The removal of the dam was an important milestone in our national effort to restore and protect our nation’s fisheries. It also demonstrates that through a cooperative partnership process, we can improve our environment and meet our economic needs for power generation.”

*Bruce Babbitt,
Secretary of the
Interior*

*Letter to Carolina
Power & Light,
Special Recognition
Award Ceremony
November 1998*

QUAKER NECK DAM REMOVAL TEAM

The Quaker Neck Dam Removal Team worked tirelessly for several years to remove a major obstruction to fish passage in the Neuse River, North Carolina. The removal of the dam, which was initiated in December 1997, has restored fish spawning habitat along 1000 miles of the Neuse River and its tributaries. Already, striped bass, American shad, hickory shad and other anadromous species of fish are beginning to return to areas of the Neuse River above the former dam site. The Neuse River historically supported fisheries of national prominence and the goal of reestablishing those fisheries has been advanced through this project, which involved several federal and state agencies, and Carolina Power and Light Company, who owned the dam. This project has been frequently referred to as the first dam removed in the United States solely for environmental reasons.



Quaker Neck Dam Removal Team.

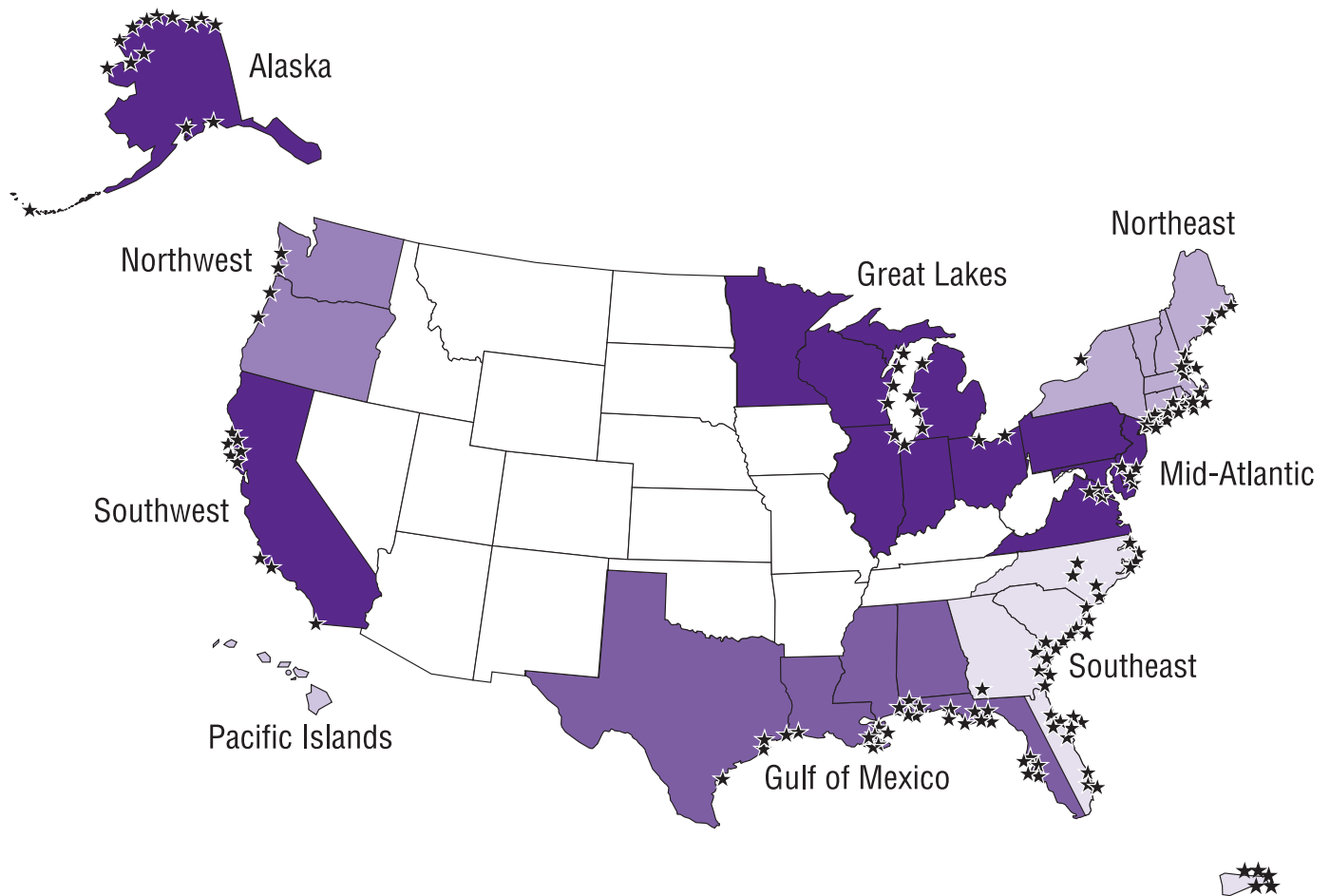
SPECIAL RECOGNITION AWARD

The Coastal America Principals initiated a Special Recognition Award in 1998 to recognize non-governmental organizations that have significantly contributed to the restoration and protection of the coastal environment. Carolina Power & Light was the recipient of this year’s award for its significant contribution to the restoration of fish passage in the Neuse River.

II. ADVANCING REGIONAL EFFORTS

Coastal America's nine Regional Implementation Teams (RITs) are composed of regional representatives from each of the partnership agencies. These teams collaborate to develop site-specific, watershed-centered projects which are enhanced by the efforts of several federal agencies. Each RIT develops a strategy to focus their efforts on the most significant environmental issues of the region. Using these strategies, the RITs identify site-specific projects which can benefit from partnership efforts, establish priorities for implementation of the projects, and initiate collaborative efforts to accomplish these high priority projects.

In 1998, four of the regions held meetings of their Regional Principals. The active involvement of these senior officials has brought greater focus and visibility to the partnership. Key issues have included support for the Coastal Ecosystem Learning Centers, implementation of the recommendations of the National Ocean Conference and the associated regional discussions, and identification of regional restoration and protection goals. Five major components of the Coastal America process support the Regional Principals and the RITs: *The Partnership Process*; *Public Involvement/Education*; *Technology Transfer*; *A Systems Approach*; and *Adaptive Management and Monitoring*.



Coastal America Regions
★ indicates project locations

II. ADVANCING REGIONAL EFFORTS

“Coastal America offers you a forum that is not crisis driven, and has a broad array of partners including the resource, military and infrastructure agencies. The ability to integrate these federal capabilities to protect and restore coastal ecosystems is a significant contribution of Coastal America.”

*Thomas W.L. McCall, Jr.,
Deputy Assistant Secretary of the Air Force
(Environment, Safety and Environmental Health)*

*Northwest Regional Principals Meeting
May 1998*



Northwest Regional Principals Meeting.

- *The Partnership Process: By combining resources and authorities, Coastal America's partners accomplish what no single organization could achieve alone. For example, the Fort McHenry, MD, restoration involves several federal partners as well as the National Aquarium in Baltimore.*
- *Public Involvement/Education: To increase the role of the federal partners in public education about the value of coastal ecosystems, four additional learning centers were designated: the Monterey Bay Aquarium in Monterey, California; the Texas State Aquarium in Corpus Christi, Texas; the Hatfield Marine Science Center in Newport, Oregon; and the Alaska SeaLife Center in Seward, Alaska.*
- *Technology Transfer: Several projects successfully demonstrated technologies which have encouraged their use in various coastal areas. For example, the removal of the Quaker Neck Dam in North Carolina has led to the involvement of several partner agencies in the removal of dams in other areas of the country. Maine NRCS and other Coastal America partners have taken the lead in removing abandoned dams for restoration of the Atlantic salmon migration corridors in cooperation with the Maine Atlantic Salmon Commission.*
- *A Systems Approach: The partnership has demonstrated how a broad regional issue can be dealt with at the local level. For example, the disappearance of submerged aquatic vegetation (SAV) in the Chesapeake Bay has been identified as a key issue. The Mid-Atlantic Regional Implementation Team is bringing federal partners together to restore SAV beds near Tangier Island, Maryland.*
- *Adaptive Management and Monitoring: To ensure successful efforts in the future, the project managers are continually evaluating what works and what does not. This information is now shared in an ongoing dialog over the Internet.*

The following pages highlight the regional strategies, noteworthy projects and some of the lessons learned from the Coastal America partnership efforts at the regional level.

NORTHEAST

The Northeast Regional Implementation Team (NERIT) has focused on expanding the number of projects underway and exploring possible federal and state partners' collaboration with the Coastal Ecosystem Learning Centers. There have been an extensive series of meetings and site visits to develop ecological restoration projects in Maine, under the leadership of the Maine Natural Resources Conservation Service (NRCS). In Connecticut, the partners are reviewing several hundred Long Island Sound (LIS) restoration sites from the LIS National Estuary Program inventory. Connecticut Department of Environmental Protection-Long Island Sound Program (CTDEP-LISP) has prioritized projects for implementation under a U.S. Army Corps of Engineers feasibility study, NRCS Watershed Habitat Improvement Program and related programs in other agencies. South County Rhode Island salt ponds are being studied for restoration of eelgrass habitats, as well as an extensive examination of all of the Narragansett Bay watersheds. NOAA has implemented the Sachuest Point salt marsh restoration project using Natural Resources Damage Assessment funds. In Massachusetts, the Wetlands Restoration and Banking Program has developed several projects for restoration, including Joppa Flats, Argillo Road and the EPA led Ballard Street Salt Marsh project. Learning Center collaboration is being explored via teachers sabbatical programs and outreach grants from CTDEP-LISP and EPA. All of these efforts are greatly enhanced by partnerships among numerous agencies and the individual agency programs are improved by establishing a better network among regional staff.

The Regional Principals of the northeast meet on an annual basis. This forum is unique in the New England area, bringing together the Regional Administrators, Regional Directors and military commanders of all of the partnership agencies to be briefed on staff activities and to establish direction for future collaboration. The hosting of the Regional Principals meeting is being rotated among agencies to better acquaint the Principals with each other's operations.

SOUADABSCOOK DAM REMOVAL

The Grist Mill dam was removed in September and early October 1998 opening 1,160 square miles of the Souadabscook's watershed to Atlantic salmon, sea run brook trout, striped bass, sea run smelt and alewives. The 14-foot high, 47 foot wide dam was connected to a bridge and has blocked the stream for almost 200 years. A one-mile long impoundment was also restored to prime riverine conditions. There are over 150 miles of streams in the Souadabscook watershed, which will now be accessible to various species of anadromous fish.

The voluntary removal of the dam by the Federal Energy Regulatory Commission license holder was accomplished by the sale of the dam and license for one dollar to Facilitators Improving Salmonid Habitat (FISH), an affiliate of the Maine Council of the Atlantic Salmon Federation. Over \$60,000 of private money was raised to help remove the dam and associated structures. Partners include: Atlantic Salmon Federation; the National Fish and Wildlife Foundation; the Trout and Salmon Conservation Foundation; and the Casco Bay Corporation. Additional funds and technical assistance were provided by NRCS, USFWS and the Penobscot Indian Nation. Additional technical assistance was provided by several state agencies. Volunteer assets were provided by the town of Hampton, Trout Unlimited, the Penobscot Fly Fishers, the Veazie Salmon Club, the Eddington Salmon Club and the Penobscot Salmon Club.



Souadabscook River, Maine, after dam removal.

MID-ATLANTIC

The Mid-Atlantic Regional Implementation Team (MARIT), approved 11 projects in March 1998 that reflect a consensus of MARIT team members for projects that support the Coastal America goals of restoring and protecting coastal resources. The projects are varied in their scope and reflect the wide variety of coastal issues that the Mid-Atlantic region faces. Projects include: restoration of anadromous fish runs; protection and restoration of submerged aquatic vascular plant communities; restoration of horseshoe crab habitats in Delaware; restoration of tidal marsh habitats in the New York Bight; and the restoration of historic hard clam populations in Long Island Sound. These projects exhibit potential for collaborative efforts to advance project quality and implementation. These designations will allow an opportunity to leverage federal resources and advance authorization and implementation at the federal level.



Tangier Island, Maryland.

TANGIER ISLAND

The MARIT has initiated an effort to link projects between Norfolk District and Baltimore District Corps of Engineers, the National Oceanic Atmospheric Administration, and the U.S. Fish & Wildlife Service in an approach to restore submerged aquatic vegetation (SAV)

habitats in the Chesapeake Bay. Aquatic communities located in and about Tangier Island, Smith Island and Saxis Island in the Pocomoke Sound support one of the largest SAV populations in the Bay. MARIT efforts are being directed at the development of broad ecosystem restoration linking similar Corps' projects on Tangier Island and Saxis Island to those undergoing development with the Smith Island project. Discussions were held to determine if there were lessons to be learned and if synergistic actions could be initiated to facilitate planning actions at Tangier Island.

COASTAL ECOSYSTEM LEARNING CENTER SUPPORT

The MARIT has been working with the National Aquarium in Baltimore (NAIB) to identify cooperative projects for restoring Chesapeake Bay habitats. The first project addresses a chronic trash problem, that occurs at high tides in the 12-acre marsh next to Fort McHenry. The marsh was created as mitigation when the Fort McHenry Tunnel was built in the early 1980's. The marsh is now owned by the Maryland State Highway Administration. Last year the National Park Service was concerned about the effect of the trash and logs that had washed into the marsh and the possible negative ecological effect on this marsh system. The Park Service was able to get support from the State Highway Administration to bring in heavy equipment to remove the large pieces of wood and other debris from the marsh. The Park Service, the NAIB and Aquarium volunteers are working with the Army Corps of Engineers, the NOAA Chesapeake Bay Office, the USFWS, the Chesapeake Bay Foundation, and city and state agencies to find a long-term solution to keeping trash and other floatable debris out of the marsh.

“Coastal America partnership efforts here in New England are truly a model for many Coastal America regions and other conservation partnerships around the country.”

*Sally Yozell,
Deputy Assistant
Secretary for Oceans
and Atmosphere,
Department of
Commerce*

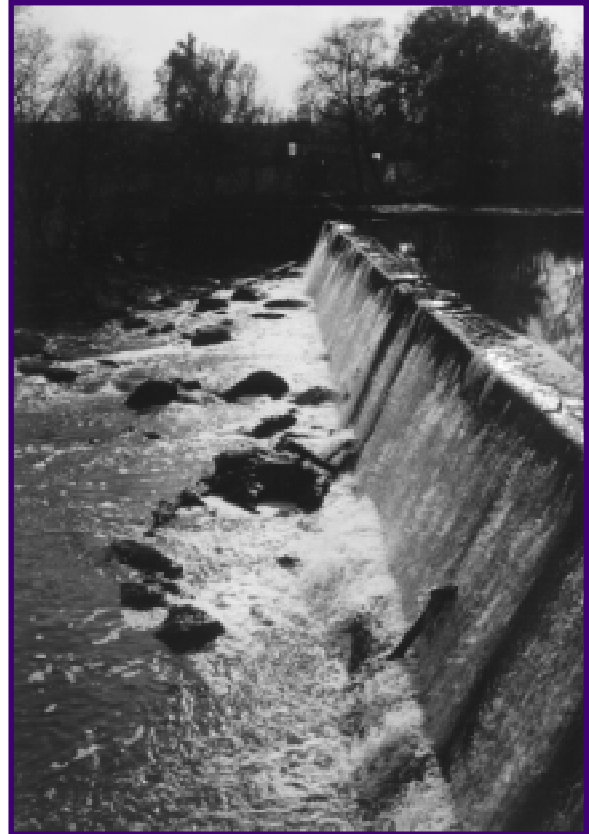
*Northeast Regional
Principals Meeting
September 1998*

SOUTHEAST

FISHERIES HABITAT IMPROVEMENT IN SOUTHEASTERN RIVERS

Building upon the success of the Quaker Neck Dam removal project, the Southeast Regional Implementation Team (SERIT) facilitated the subsequent removal of the Cherry Hospital Dam on the Little River (a tributary of the Neuse) in North Carolina. This project was completed in July 1998, restoring access to about 150 additional stream miles for anadromous fish spawning. Project teams have initiated the formulation of specific strategies to move forward with removal of two additional dam structures in North Carolina, the Rains Mill Dam on the Little River and the Swepsonville Dam on the Haw River.

The SERIT has expanded its focus to address opportunities to improve fisheries habitat in all basins draining the South Atlantic coast. Project opportunities may include: removal of obsolete structures which impede fish migration; fish passage at structures where removal is not a feasible option; and other types of habitat improvement and restoration projects.



Rains Mill Dam, North Carolina.

COASTAL HABITAT RESTORATION

A second focus area for the team has been implementation of habitat restoration projects in the immediate coastal areas. These projects address restoration of the functions and values of various types of habitats that have been altered or degraded in the past by human activity. Numerous projects are in various stages of development and implementation along the South Atlantic coast. These projects protect and/or restore a wide variety of important habitats. Examples include: shore bird nesting areas; salt marsh and mangroves; and shallow, confined embayments and estuarine areas with water quality/circulation problems.

INITIATIVES

During 1998, the Southeast Regional Implementation Team placed major emphasis on its efforts to more effectively engage state agencies as well as key nongovernmental interests in the Coastal America process in the Southeast. Contacts have been established with the directors of designated coastal zone management agencies in the states of North Carolina, South Carolina, Georgia and Florida. Representatives from North Carolina and Georgia have participated in regional team meetings in 1998. The team has also established and is building strong working relationships with key nongovernmental organizations, including the National Fish and Wildlife Foundation and the World Wildlife Fund. Representatives from these organizations have met with the regional team to share information about their programs and their potential applicability to Coastal America, provide input on how to improve the Coastal America process, and assess specific ways that nongovernmental organizations can work more collaboratively with the SERIT.

“It was a true coalition — a voluntary partnership . . . We were all in it together. And when it was completed, the effort lived up to what had become the project’s unofficial motto: Let’s make it a great day for fish.”

*William Cavanaugh,
President,
Carolina
Power & Light*

*Quaker Neck Dam
Partnership
Award Ceremony
December 1998*

GULF OF MEXICO

GOLDEN MEADOW, LAFOURCHE PARISH, LOUISIANA

This project site is located within the Barataria-Terrebonne Estuary. The Barataria-Terrebonne National Estuary Program approached the Gulf of Mexico Regional Implementation Team (GMRIT) for assistance in acquiring the labor and equipment needed to install a handicapped-accessible parking lot and fishing wharf in Golden Meadow. The GMRIT facilitated introductions and discussions with the Louisiana Army National Guard. As a result, the project is included on their candidate training projects list for the summer of 1999. Key partners include: the Lafourche Parish Council Office of Coastal Zone Management; Louisiana Department of Natural Resources; and NOAA.

TEXAS STATE AQUARIUM DESIGNATION

The Texas State Aquarium was designated as a Coastal Ecosystem Learning Center on March 30, 1998. Federal partners have provided a variety of support to the facility. On August 2, 1998, EPA’s *RV Anderson* visited the Aquarium and drew over 300 visitors despite a sweltering 98 degree temperature. EPA provided a narrated tour of the *Anderson*. Several agencies have provided manuals, biofacts and teacher training materials. Also, the Flower Gardens National Marine Sanctuary and Aquarium staff members have collaborated to script a one hour broadcast *Wonders Under the Sea...* a live, interactive telecast beamed by satellite to over 100 PBS stations. The broadcast targeted third and fourth grade students in the 50 states, Canada and Puerto Rico.

THE FLORIDA AQUARIUM

Bolstered by support expressed by Coastal America partners and the Gulf of Mexico Program Office, The Florida Aquarium has received funding and started work on a statewide teacher education program for high school marine science teachers. This program, Science Education At Sea, includes 10 one-day workshops being held throughout Florida and a 3-credit summer institute at the University of Tampa.



Texas State Aquarium.

SOUTHWEST

WETLAND RESTORATION PROJECTS

The Southwest RIT (SWRIT) continues to focus on wetland restoration. The ongoing Hamilton wetlands restoration project will restore up to 2,500 acres of the former Hamilton Army Air Field and nearby properties to wetland and wildlife habitat, and was endorsed by the SWRIT in 1995. A Memorandum of Agreement to transfer 960 acres from the Army to the California Coastal Conservancy is being finalized and anticipated in late 1999. The feasibility for using dredge material from the Army COE maintenance projects is being evaluated. The final EIS studies have been completed.

In addition, the Southwest RIT has endorsed two new projects. Bolinas Lagoon, north of San Francisco Bay, provides important and rare mudflat and marsh habitat for marine fishes, waterbirds and marine mammals, particularly harbor seals. It is an important component of the Pacific Flyway. A feasibility study has been initiated to determine which of the remedial alternatives, most requiring dredging, will best restore tidal flow to the lagoon and thus increase productivity and capacity for fish and wildlife. The second project is the Liberty Island ecological habitat restoration. This project, in the Sacramento River Delta, is proposed to restore important fish and wildlife habitat to about 4,700 acres of agricultural land to include tidal freshwater marsh, shallow water aquatic vegetation and seasonal wetlands. State funding is being sought under the CALFED program, with participation by the Army COE, USFWS and California Department of Fish and Game to acquire the land as part of the North Delta Fish and Wildlife Refuge. Along with the Prospect Island Restoration which will restore about 1600 acres, Delta wetlands will be increased by about 30%.

MONTEREY BAY AQUARIUM DESIGNATION

The Monterey Bay Aquarium was designated as a Coastal Ecosystem Learning Center on January 27, 1998. In September, the Aquarium hosted a conference of aquarium and federal representatives from the west coast to develop cooperative projects including information sharing, product development, and a Coastal Adventure program.

NORTHWEST

GOLDSBOROUGH CREEK RESTORATION

The Northwest Regional Implementation Team (NWRIT) has endorsed the Goldsborough Creek restoration project located in Shelton, Washington. This project involves the Simpson Timber Company, U.S. Fish and Wildlife Service and the Army Corps of Engineers. The project will remove the Timber Mill Pond dam, construct a series of weirs forming steps in the stream (establishing more gradual contours and gradients), anchor these weirs with rocks and native material, and plant native vegetation in the streambed to enhance fish and wildlife habitat.

HATFIELD MARINE SCIENCE CENTER DESIGNATION

The Public Wing of the Hatfield Marine Science Center, Newport, Oregon, was designated a Coastal Ecosystem Learning Center on May 8, 1998. Mr. Thomas "Tad" McCall, Deputy Assistant Secretary of the Air Force (Environment, Safety and Occupational Health) represented the Coastal America Principals. A meeting of the Northwest Regional Principals was held following the designation.



Commitments to Hatfield Marine Science Center, Oregon.

II. ADVANCING REGIONAL EFFORTS

“The educational outreach activities of regional facilities such as the Monterey Bay Aquarium provide the necessary information to these coastal population centers to help ease the burden upon our coastal ecosystems.”

*Robert B. Pirie, Jr.,
Assistant Secretary
of the Navy
(Installations and
Environment)*

*Monterey Bay
Aquarium
Designation
January 1998*

ALASKA

During 1998, the Alaska Regional Implementation (AKRIT) focused on identifying potential habitat restoration projects and establishing a partnership with the Alaska SeaLife Center. The team also hosted the 1998 Coastal America annual retreat in September.

DUCK CREEK RESTORATION

Duck Creek, in Juneau, Alaska, suffers from decades of development. Its historically abundant salmon runs have been reduced to remnants. Duck Creek is impaired by sedimentation, high iron levels, low oxygen levels and general poor water quality. Restoration efforts to date include construction of ponds and wetlands, and enhancing bridges and culverts to increase stream flows for migrating salmon. There are 26 organizations, small businesses, local, state and federal agencies involved with the monitoring and restoration of Duck Creek.



Marsh at Duck Creek, Alaska, during construction.

ALASKA SEALIFE CENTER DESIGNATION

The Alaska SeaLife Center was designated as the ninth Coastal Ecosystem Learning Center on September 28, 1998. Presentations by regional representatives of the federal agencies included a walrus head mount, many posters, videos, books and research publications, speakers for Center programs, funding for a summer intern and links with many of the federal web pages. The first Alaska Regional Principals meeting was held in conjunction with the designation.

III. SHAPING THE FUTURE

As the reinvention of government continues, Coastal America is increasingly used as a model for addressing environmental issues. This collaborative partnership brings federal and non-federal partners together to address coastal issues and balances environmental and economic goals. It is clear that the long term management of our coastal environment and other natural resources requires the collaboration of federal, state and local governments, and private organizations at the national and regional level, and an informed public.

NATIONAL INITIATIVES

The Coastal America partnership, both the National Implementation Team and several Regional Implementation Teams, are actively involved with several current initiatives. The Coastal America Principals Group has encouraged the partnership at all levels to participate in these Administrative initiatives and others as they arise. The existing Coastal America regional structure has already been used to support the American Heritage Rivers program, the Clean Water Action Plan and the National Ocean Conference Year of the Ocean Initiatives.

Coastal America is also available to help federal agencies achieve their goals in compliance with the Government Performance and Results Act (GPRA). A summary of GPRA goals for the partner agencies was developed to assist them in determining how the Coastal America collaborative process may be useful in achieving their goals.



Coastal America Team on field trip to Kenai River, Alaska.

REGIONAL INITIATIVES

There is an increased level of involvement of the Regional Principals in the partnership. This activity increases the visibility of the partnership activities, and leads to more active participation by the agencies at the regional level. The Coastal America Principals Group has specifically tasked the Regional Principal groups to take an active role in implementing the region-specific recommendations resulting from the discussions at the downlink sites for the National Ocean Conference. These recommendations concentrate on issues of particular interest to the region, as opposed to the broader focus of the conference recommendations.

PUBLIC EDUCATION

A key to the success of these various initiatives is a public educated about the value of coastal ecosystems, the need to protect them, and the possibilities for balancing environmental and economic needs. Coastal America's Coastal Ecosystem Learning Centers remain active in their efforts to develop partnerships with federal agencies to further public education about coastal ecosystems. The network was expanded in 1998 and now includes nine facilities throughout the country.

In summary, as resources continue to decline, efforts to create partnerships to leverage existing resources continue to increase. The success of the Coastal America partnership is a model which can assist in these efforts. At the federal level, Coastal America is already involved with several initiatives and will work in the future to expand these efforts and assist others to develop similar partnerships.

“Coastal America’s approach is akin to an ecosystem task force. Problems can be addressed before they reach a boiling point. Agencies can discuss plans, programs and even visions in a context that need not be crisis driven. Coastal America’s players are broad, and so are the possibilities. I hope you will continue to put Coastal America’s distinct support to work.”

Terry Garcia, Chair, Coastal America and Assistant Secretary of Commerce for Oceans and Atmosphere

*Alaska Regional Principals Meeting
September 1998*



Ocean Fair, National Ocean Conference, Monterey, California.



South Florida.

COASTAL ECOSYSTEM LEARNING CENTERS

ALASKA SEALIFE CENTER

P.O. Box 1329
Seward, AK 99664
(907) 224-3080
www.alaskasealife.org

AQUARIUM FOR WILDLIFE CONSERVATION

Boardwalk at West 8th Street
Brooklyn, NY 11224
(718) 265-3400
www.wcs.org

THE FLORIDA AQUARIUM

701 Channelside Drive
Tampa, FL 33602
(813) 273-4000
www.sptimes.com/aquarium

HATFIELD MARINE SCIENCE CENTER

2030 South Marine Science Drive
Newport, OR 97365-5296
(541) 867-0257
www.hmsc.orst.edu/education

MONTEREY BAY AQUARIUM

886 Cannery Row
Monterey, CA 93940-1085
(831) 648-4800
www.mbayaq.org

MYSTIC AQUARIUM AND THE INSTITUTE FOR EXPLORATION

55 Coogan Boulevard
Mystic, CT 06355-1997
(860) 572-5955
www.mysticaquarium.org

NATIONAL AQUARIUM IN BALTIMORE

Pier 3
501 East Pratt Street
Baltimore, MD 21202-3194
(410) 576-3850
www.aqua.org

THE NEW ENGLAND AQUARIUM

Central Wharf
Boston, MA 02110-3399
(617) 973-5200
www.neaq.org

TEXAS STATE AQUARIUM

2710 North Shoreline Boulevard
Corpus Christi Beach
Corpus Christi, TX 78402
(361) 881-1200
www.txstateaq.com



Sampling on EPA's RV Anderson during the New England Aquarium's teacher sabbatical program.

FEDERAL PARTNERS

Executive Office of the President

Council on Environmental Quality

Department of Agriculture

Farm Services Administration

Forest Service

National Resources Conservation Service

Department of the Air Force

Department of the Army

Corps of Engineers

Department of Commerce

National Oceanic and Atmospheric Administration (NOAA)

Department of Defense

Department of Energy

Department of Housing and Urban Development

Department of the Interior

Bureau of Land Management

Fish and Wildlife Service

Minerals Management Service

National Park Service

Geological Survey

Department of the Navy

Navy

Marine Corps

Department of Transportation

Coast Guard

Federal Aviation Administration

Federal Highway Administration

Federal Railroad Administration

Maritime Administration

Environmental Protection Agency

General Services Administration

Marine Mammal Commission

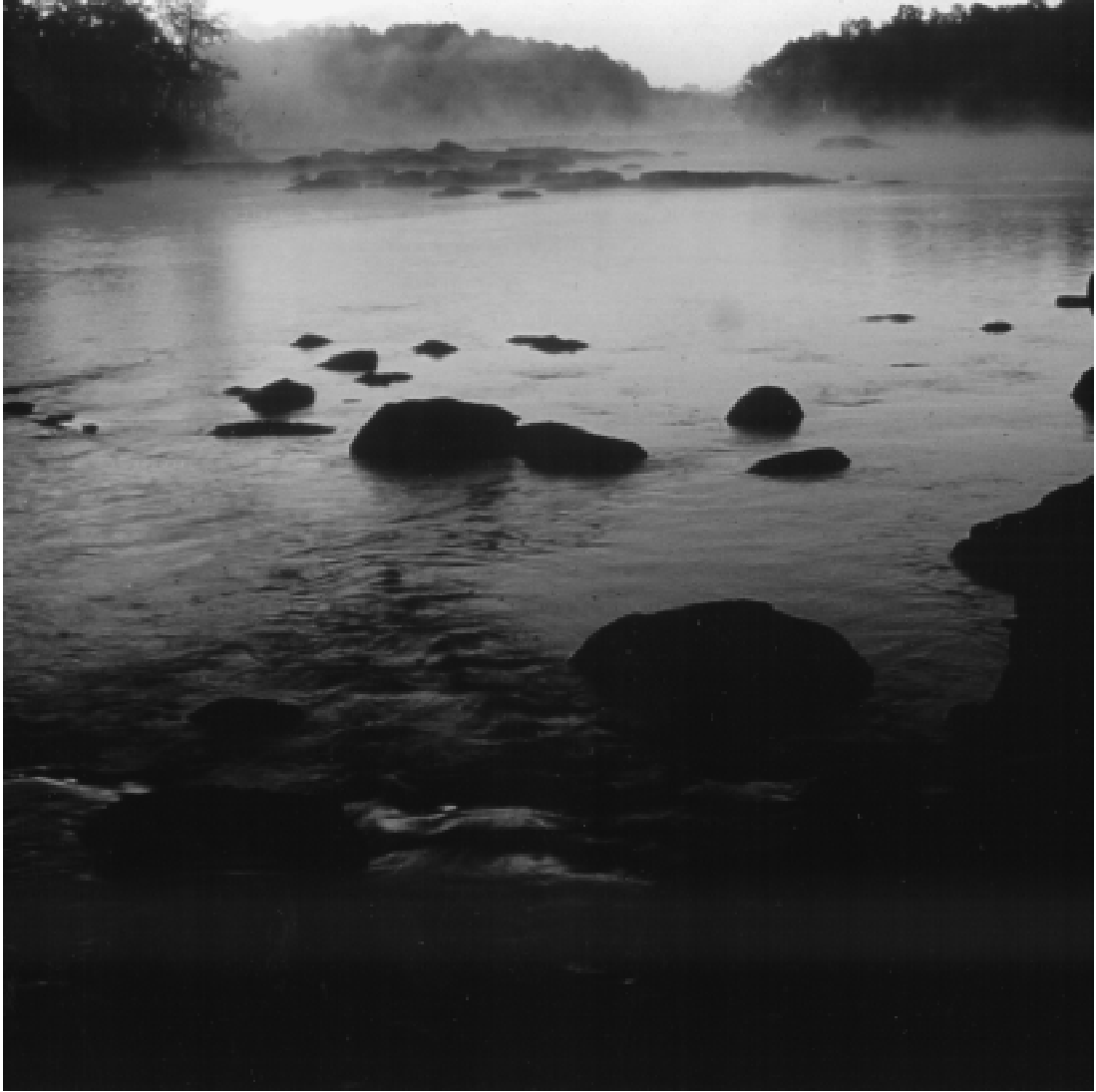
National Science Foundation

COASTAL AMERICA PROJECT NON-FEDERAL PARTNERS

Accomack County, VA
Alabama Department of Conservation and Natural Resources
Alabama Department of Economic and Community Affairs
Alameda County Flood Control District
Alaska Department of Environmental Conservation
Alaska Department of Fish and Game
Alaska Department of Natural Resources
Alaska Department of Transportation and Public Facilities
Alaska Discovery Foundation
Alaska Science and Technology Foundation
Alliance for the Chesapeake Bay
American Littoral Society
Americorps
AMTRAK
Anita C. Light Estuary Center
Anne Arundel Community College
Aquarium for Wildlife Conservation, NY
Aquidneck Island Land Trust
Aransas Warehouse Services, TX
Arete Construction
Armand Bayou Foundation, TX
Associated Scientists of Woods Hole
Association of Fishery Guides, FL
Astoria High School
Atlantic Salmon Federation
B J Services, TX
Baldwin County, AL.
Boy Scouts of America
Brevard County Mosquito Control District, FL
California Coastal Conservancy
California Department of Fish and Game
California Department of Transportation
California Environmental Protection Agency
California Plant Society
California Regional Water Quality Control Board
California State Parks
California Wildlife Conservation Board
Canadian Lamprey Control
Canaveral Ports Authority
Captain Ted Appell Tour Boats, TX.
Cardinina Power Light Company
Carolina Power and Light
Casco Bay Corporation
Center for Marine Conservation
Centex, Inc. TX
Channel Construction Corporation
Chesapeake Bay Commission
City and Borough of Juneau
City of Hampton Wetlands Board, VA
City of Hayward
City of Miami
City of Norfolk
City of Norfolk Wetlands Board
City of Savannah, GA
City of Seattle, WA
City of Soldotna, AK
City of Tampa
City of Toledo, OH
City of Warrenton
Coastal Conservation Association
Coastal Research Laboratory
Coastal Wildlife Refuge Society and Volunteers
Cockroach Bay User's Group
College of William and Mary
Commissioner, Port of Astoria
Connecticut Department of Environmental Protection
Connecticut Department of Transportation
Conoco, Inc., Corpus Christi District, TX
Cook Inlet Aquaculture Association
Cooperating Chemical Industries
Cornell Cooperative Extension
CREST
Dauphin Island Sea Laboratory
Department of Environment & Natural Resources
Department of Environmental Conservation
Department of Environmental Protection
Department of Fish & Game
Department of Natural Resources
Department of Transportation and Facilities
Derrick Construction, Inc. TX
Don Howell Contractor
Duck Creek Homeowners
Ducks Unlimited
E & B, Rockport Area Stores, TX
East Bay Regional Park District
East Harris County Manufacturing Association, TX
Environmental Solutions Corporation
Florida Aquarium, FL
Florida - Bay County School System
Florida - Dade County Department of Natural Resources
Florida Department of Education
Florida Department of Environmental Protection
Florida Department of Forestry
Florida Department of Natural Resources
Florida Game and Freshwater Fisheries
Florida-Gulf County
Florida Inland Navigation District
Florida Marine Institute
Florida Marine Patrol
Florida Marine Research Institute (FMRI)
of the Bureau of Marine Research of the Florida
Florida Marine Resources Council
Florida Parks Department
Florida St. Johns Water Management District
Fort Steven State Park
Friends of Saint Andrew State Park
Friends of Saint Joe Bay
Friendswood Development Company
Galveston Bay Foundation, TX
Gastineau Guiding
Georgia Department of Natural Resources
Georgia Department of Transportation
Georgia Environmental Policy Institute
Georgia Land Trust Service Center
Georgia Ports Authority
Goldbet Incorporated
Golden Gate Chapter of Audubon Society
Grand Bay Development
Great Lakes Fishery Commission
Great Lakes Power
Guam Clearinghouse, Bureau of Planning
Guam Division of Aquatic and Wildlife Resources
Guam Environmental Protection Agency
Gulf Coast Association of Soil and Water Conservation Districts (SWCD), TX
Gulf County, Al.
Halibuton Inc., TX
Hanna Construction
Hanover County
Harford Community College
Harford Technical High School
Harlingen County, TX
Hatfield Marine Science Center
Hayward Area Recreation and Park District
Hayward Shoreline Planning Agency

Hewitt Foundation
 Hidalgo SWCD, TX.
 Hillsborough Community College
 Hillsborough County Environmental Lands Acquisition and Protection Program (HCELAPP)
 Hillsborough County Environmental Protection Commission
 Hillsborough County, FL
 Hillsborough County Parks and Recreation Department
 Hillsborough County Road and Street Department
 Hillsborough County Stormwater Design Section of the Hillsborough County Engineering
 Hollywood Marine, Inc., TX
 Houston Concrete Products, TX
 Houston Port Authority, TX
 Houston Power and Light Company, TX
 Huna Totem Corporation
 Indian River County, FL.
 Indian River Lagoon National Estuary Program, FL
 Interstate Commission on the Potomac River Basin
 Izaak Walton League
 Jacksonville Ports Authority
 Jay Bludworth Company, TX
 Jefferson Parish, LA.
 Jekyll Island Authority
 Jewell Public School
 Juneau Public School
 Juneau Trot Unlimited
 Juneau Youth Services
 Kenai Peninsula Groundwater Task Force
 King County, WA
 Laurel Marcus and Associates
 Lewis Environmental Services, Inc.
 Long Island Sound Program
 Louisiana Department of Natural Resources
 Louisiana Department of Wildlife and Fisheries
 Maine Atlantic Sea Run Salmon Commission
 Maine Department of Inland Fisheries
 Maine Department of Marine Resources
 Marianas Audubon Society
 Marine Environmental Research and Training Station
 Marine Resources Council of East Florida
 Maryland Department of Environmental Regulatory Administration
 Maryland Department of Natural Resources
 Massachusetts Bays Program
 Massachusetts Department of Environmental Protection
 Massachusetts Department of Transportation
 Massachusetts Executive Office of Environmental Affairs
 Massachusetts Office of Wetlands Restoration and Banking
 Maumee Soil and Water Conservation District
 McAmis Industries
 Mendenhall Valley Partnership
 Metro Transportation Commission, CA.
 Miami-Dade Public Works Department
 Miami-Dade Water and Sewer Authority
 Michigan Department of Natural Resources
 Mississippi Bureau of Marine Resources
 Mississippi Department of Environmental Quality
 Mobile County, AL
 Mohegan Tribe, CT
 Monroe County, NY
 Monterey Bay Aquarium, CA
 Monterey Parks Department, CA
 Montgomery County Government, MD
 Muckleshoot Tribe, WA
 Mystic Marine Life Aquarium, CT.
 Narraganset Bay Program
 National Aquarium in Baltimore, MD
 National Audubon Society
 National Capitol Planning Commission
 National Fish and Wildlife Administration
 National Fish and Wildlife Foundation
 Native American Project
 New England Aquarium
 New Hampshire Coastal Zone Management
 New Hampshire Division of Forests and Lands, Urban Forestry Center
 New Hampshire Fish and Game Department
 New Hampshire Jackson Estuarine Laboratory
 New Hanover Conservancy
 New Hanover County
 New York Aquarium for Wildlife Conservation, NY
 Ninigret Tribe, RI
 North Carolina Adopt-A-Trail Program
 North Carolina Coastal Foundation
 North Carolina Department of Transportation
 North Carolina Department of Environment
 North Carolina Department of Environment, Health, and Natural Resources
 North Carolina Department of Environmental Protection
 North Carolina Department of Environment & Natural Resources
 North Carolina Division of Forest Resources
 North Carolina Division of Water Resources
 North Carolina Marine Fisheries Commission
 North Carolina Natural Heritage Program
 North Carolina Public Utility
 North Carolina State University Extension
 Northwest Power Planning Council
 Ocean Club Development Corporation
 Odyssey Contemporary Maritime Museum Foundation
 Ohio Cooperation Extension Services
 Ohio Department of Natural Resources
 Ohio Environmental Protection Agency
 Oregon Department of Fish and Wildlife
 Oregon Department of Forestry
 Oregon State Department of Fish and Game
 Oregon State Department of Parks
 Oregon Wetlands Joint Venture
 Oro Loma Sanitary District
 Outer Banks Community Foundation
 Pacific Educational Resources Director
 Palm Beach County Department of Environmental Resources Management
 Palm Beach County, FL
 Peninsula Design and Engineering Inc.
 Penobscot Indian Nation
 Port of Corpus Christi Authority, TX
 Port of Fernandina, FL
 Port of Seattle, WA
 Port of Umpqua, OR
 Potomac River Fisheries Commission
 Puerto Rico Department of Natural Resources
 Puerto Rico Trust
 Puget Sound Water Quality Authority, WA
 Raymond Dugat Company, TX.
 Rhode Island Coastal Resources Management Council
 Rhode Island Department of Transportation
 Rhode Island Department of Environmental Management
 Rhode Island Division of Fish and Wildlife
 River Ratz, Bass Master's Club
 Rutherford High School
 Saint Andrew Bay Resource Management Association, FL
 Saint Andrew State Recreation Area, FL
 Saint Johns River Water Management District, FL
 Saint Lucie County, FL.

San Francisco Bay Conservation and Development
Commission, CA
San Francisco Bay Regional Water Quality Control Board
San Francisco Water Quality Control Board
Sandollar Pavilion Marina, TX.
Santa Barbara Natural History Museum
Sea Oats Garden Club
Sea World
Seaside High School
Sheinberg Associates
Shell Oil Spill Litigation Settlement Trustee Committee
Simpson Timber Company
Sonoma Land Trust, CA
South Carolina Wildlife and Marine Resources Department
South Florida Water Management
South Florida Water Management District
Southdown Corporation, TX
Southeast AK Guidance Association
Southeast Conference
Southeastern NC Waterman's Association
Southwest Florida Water Management District
Southwest Florida Water Management District
State of Florida
Stilliguamish Tribe, WA
Stilly-Snohomish Fisheries Enhancement Task Force
Superbear Grocery
Suquamish Tribe
Surface Water Improvement and Management (SWIM)
Tangier Island Waterman
Tampa Bay National Estuary Program
Tampa Bay Regional Planning Council
Tampa Baywatch
Terrene Institute
Texas Bureau of Economic Geology
Texas Department of Parks and Wildlife
Texas Department of Public Transportation and Highways
Texas General Land Office
Texas Soil and Water Conservation District
Texas State Aquarium
Texas Waterway Operators Association
Textron Marine, Inc. TX.
The Florida Aquarium
The Nature Conservancy
The Student Conservation Association of America
Tidewater Chapters of the American Fisheries Society
Toledo-Lucas County Port Authority
Town of Glen Cove, NY
Town of Hampton, ME
Town of North Hampton, NH
Town of Pittsford, New York
Trinity Bay SWCD, TX.
Trout and Salmon Conservation Foundation
Trout Unlimited
University of Alaska Southeast
University of Colorado, Institute of Arctic and Alpine
Research
University of Florida
University of Guam, Marine Laboratory
University of Maryland
University of Puerto Rico
University of Rhode Island
University of Tennessee
Village of Key Biscayne
Virginia Committee for Innovative Technology
Virginia Council on the Environment
Virginia Division of Game and Inland Fisheries
Virginia Institute of Marine Sciences
Virginia Marine Resources Commission
Virginia Shoreline Erosion Advisory Services
Volusia County
W.C. Reese Contracting Co.
Warrenton High School
Washington Department of Ecology
Washington Department of Fisheries
Washington State Department of Wildlife
Weyerhaeuser Corporation
Whataburger, Rockport Store, TX.
Wilderness Society
Wisconsin Cooperative Extension Service
Wisconsin Department of Natural Resources
Woods Hole Oceanographic Institution
Yale University
Yard Doctor Landscapes
Youth and Adult Volunteer Groups



Chesapeake Bay.