

AN ANNUAL SUMMARY OF PROGRAMS, ACTIVITIES,
AND PUBLICATIONS FOR THE YEAR 1990

Red Hook Center Box 33, St. Thomas, United States Virgin Islands 00802 Telephone: (809) 775-6225

**ENVIRONMENTAL
ASSESSMENTS OF SIX
CARIBBEAN COUNTRIES
COMPLETED**

**COMPREHENSIVE GUIDES TO
CRITICAL RESOURCE
MANAGEMENT ISSUES**

In early 1987 when staff at Island Resources Foundation, in partnership with the Caribbean Conservation Association (CCA), took on the task of assisting in the preparation of *Country Environmental Profiles* for six Eastern Caribbean countries, they knew they were taking on a formidable assignment. What they did not fully realize was the magnitude of that effort, which would not be completed until four years later. Before the Profile project ended, an unprecedented assemblage of institutions, government agencies, non-governmental organizations, and individuals would become involved in a first-of-its-kind effort to *comprehensively* examine and assess priority environmental issues in the countries of: Antigua-Barbuda, Dominica, Grenada, St. Kitts-Nevis, St. Lucia, and St. Vincent and the Grenadines.

Over the course of the four year project, eight IRF staff persons and 14 IRF associates were to be involved in Profile research and writing assignments. Additionally, CEP National Committees were formed



Dr. Edward Towle (I), President of IRF, presents a \$500 check to Mr. Ronald Charles, a Forestry Officer in Dominica, who, with fellow Forestry Officer Arlington James (not pictured), was a recipient of the 1990 Euan P. McFarlane Environmental Leadership Award, which is presented annually by Island Resources Foundation (see page 2).

in each target country to assist with technical review and provide guidance to IRF research teams. A total of 149 Antiguan, Dominicans, Grenadians, Kittians, Nevisians, St. Lucians, and Vincentians were to serve on these CEP committees.

In each Profile country, one government agency took the lead in providing coordination and liaison for the project. In most cases, this

was the Ministry of Agriculture, although in St. Lucia the Central Planning Unit assumed the role, and in St. Vincent it was the new Ministry of Health and the Environment. A governmental commission in Antigua -- the Historical, Conservation and Environmental Commission -- provided leadership in coordinating the Profile project for Government in that country.

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SPECIAL INSERT: SUMMARY OF EASTERN CARIBBEAN ENVIRONMENTAL PROFILE PROJECT

(CEP PROJECT, continued from page 1)

Additionally, at the project's commencement, the funder (the U.S. Agency for International Development) as well as the two key implementing organizations (CCA and IRF) agreed to identify a meaningful role for non-governmental organizations (NGOs) in implementing CEPs in the Eastern Caribbean. Consequentially, NGOs in the six target countries were selected to provide local support services and assistance for the CEP National Committees and IRF research teams. Each NGO received a subvention from the Caribbean Conservation Association to assist it in carrying out its responsibilities.

More information on NGO participation in the CEP project can be found in Issue No. 11 (January 1991) of IRF's *"NGO NEWS for the Eastern Caribbean."* Suffice it to reiterate two points here. First, the CEP project enabled many participating NGOs to obtain the services of paid staff and to upgrade or expand essential office services or facilities. At the same time, involvement of the non-government sector in the project will help ensure that the CEP reports and their in-

ternal findings are perceived as an important agenda for change by local environmental leaders -- both within and external to government.

As completed, the CEP series provides almost 1,500 pages of descriptive analysis, sector-specific assessment, and literally hundreds of policy recommendations, all dealing with the state of the environment in each of six Eastern Caribbean countries. Each Profile establishes a new resource management agenda for the 1990's for governments, NGOs, donor groups and resource managers working in the region. There is nothing else available at the present time -- within a single, country-specific format -- to equal the scope, detail, and multi-sector approach of the CEP reports.

AID, CCA, and IRF were told at the beginning of this process by our in-country working partners that there would be considerable value in taking a retrospective look at and reporting on environmental change as it has taken place in selected Eastern Caribbean islands in the last several decades. It was long overdue, and -- as we were told by

one CEP Committee member -- "We need to look back and see where we country been."

But in addition to looking back, the CEP reports look to the future. To implement even a portion of the policy recommendations presented will require both co-operation and coordination, for these recommendations and guidelines are seldom as neat and orderly as their presentation in written form in the Profiles would suggest. Furthermore, as the Profiles often make clear, a complex problem will appear, and in fact will prove, intractable until it is attacked creatively, aggressively and simultaneously by both government and private sector entities, working together more or less as partners. One of the purposes of the Country Environmental Profile Project was to improve these avenues of dialogue in the search for workable solutions.

A "fact sheet" on the Profile Project is included with this annual report, along with information on how to obtain pre-print copies of each Profile report.

1990 McFARLANE LEADERSHIP AWARD PRESENTED JOINTLY TO TWO DOMINICAN FORESTERS

Unable to make a selection between two outstanding candidates, IRF's Award Committee for the annual Euan P. McFarlane Award decided to present the 1990 honor to each finalist -- Mr. Ronald Charles and Mr. Arlington James, both Forestry Officers in Dominica.

Recipient **Arlington James** heads the Environmental Education Unit of Dominica's Forestry and Wildlife Division and has played a leadership role in implementing conservation education activities in his country. The letter nominating James reported that he had been responsible for production of a steady stream of environmental literature for many years, including monthly publication of *"Vwa Diablotin"*, a popular tabloid produced by the Forestry Division.

Recipient **Ronald Charles** also works as a Forestry Officer with a primary interest in environmental education. As a participant in Project Sisserou, a wildlife conservation project sponsored by Forestry, Charles visited every school in the country and addressed over 12,000 children on the subject of endangered Dominican wildlife.

The McFarlane Award for Outstanding Environmental Leadership was first established by IRF in 1987 to provide recognition for young West Indians (under 35 years of age) who have demonstrated environmental leadership in the Eastern Caribbean. The award is named in memory of an IRF trustee and was endowed by Laurance S. Rockefeller. It includes an unrestricted \$1,000 cash gift.

EASTERN CARIBBEAN PARKS BIBLIOGRAPHY

Early in 1990 IRF, in cooperation with the U.S. National Park Service and the Virgin Islands National Park and Biosphere Reserve, released a new publication which represents an up-to-date working bibliography on parks and protected areas in the Eastern Caribbean. Released under the title of "Eastern Caribbean Parks and Protected Areas Bibliography", this annotated and cross-referenced bibliography contains 460 entries, which tell the story of parks and protected area development and management in the sub-region.

Through the offices of IRF, the Virgin Islands National Park, and the Caribbean Natural Resources Institute in St. Croix, hundreds of copies of the bibliography have already been distributed. IRF still has a few copies available, and interested institutions or individuals should contact its Publications Office in Washington, D.C. to request a copy. Priority will be given to requests from the Eastern Caribbean region.

PHASE TWO OF NGO PROGRAM OFF TO A GOOD START IN 1990

Since 1986, Island Resources Foundation has supported a program of assistance for Eastern Caribbean non-governmental organizations (NGOs) that have environmental program interests. Initially funded as a "pilot project" by World Wildlife Fund-US and Rockefeller Brothers Fund, the NGO Program entered Phase Two in September of 1989 with the awarding of a major five-year matching grant by the U.S. Agency for International Development (AID).

From its commencement, now more than four years ago, IRF's NGO Program has been built on one basic premise, namely, that *the private, non-government sector in the Eastern Caribbean has an important role to play as an agent for sustainable development and planned growth strategies, as a "quality control" mechanism for monitoring development impacts, and as an institutional forum for consensus-building about national development goals.* In short, opportunities for environmental leadership exist in the region, as do opportunities for promoting joint government/NGO initiatives and partnerships.

PROGRAM DIRECTOR APPOINTED

In January 1990, Dr. Bruce J. Horwith joined IRF's staff as the full-time director of the NGO Program. Bruce came to IRF from AID's Washington office, where he had worked as a natural resources and agricultural specialist in AID's Women in Development Program. In June, Bruce and his family moved

to Antigua, the country selected by IRF as the base for its NGO program activities in the Eastern Caribbean. The NGO project office is presently located at the National Museum in Antigua's capital city of St. John's.

NGO FINANCIAL AND TECHNICAL ASSISTANCE AVAILABLE

During 1990, both financial and technical assistance was provided by IRF to the 11 primary organizations directly participating in the NGO Program. Grants for institution-building activities were awarded to three NGOs: the Antigua Environmental Awareness Group (EAG), the St. Christopher Heritage Society, and the Nevis Environmental Education Committee. This was EAG's second grant from IRF under the NGO Program, but the first for the Heritage Society and the Nevis group. Additionally, IRF assisted one NGO -- the Nevis Historical and Conservation Society -- in successfully obtaining third-party funding (in this case, from the World Wildlife Fund-US) for a new resource management program. This grant will be administered by IRF in cooperation with WWF.

Direct on-site training and technical assistance in board and staff development and in the preparation of "institutional development plans" were provided to seven NGOs during the year. IRF plans to continue these initiatives in 1991 and also expand the range of services available by adding at least two new program elements to focus on: (1)

NGO financial management and (2) NGO program planning, particularly in the areas of biodiversity, museum development, ecological restoration, and agroforestry.

INTERNSHIP PROGRAM LAUNCHED IN SUMMER 1990

Under IRF's Internship Program, the services of three interns were made available to Caribbean NGOs during the summer of 1990. Anne Hughes, a Master's Degree candidate at Michigan State University, and her husband, Terry, a doctoral candidate from Cornell University, spent two months in Antigua, working with the Environmental Awareness Group and the Cooperative Farmers Association. These internships were co-sponsored by IRF and the Pan American Development Foundation.

Ms. Erin Kellogg, who is finishing a Master's Degree at Yale University's School of Forestry and Environmental Studies, spent the summer working with the Nevis Historical and Conservation Society. Her internship was co-funded by IRF and the MUKTI Fund.

IRF plans to substantially expand the internship component of its NGO Program in the coming years, as this has proven to be an effective means of providing short-term technical support to our NGO partners. Activities or projects for assigned interns are selected by the sponsoring NGO but must be compatible with the overall objectives of IRF's NGO Program.

IN MEMORY - NATE SCHURER

It was with a heavy sense of personal and institutional loss that IRF learned of the death of Foundation trustee, Nathaniel Schurer -- or Nate, as he was known by all. IRF president Ed Towle first met Nate 20 years ago when, as director of the College of the Virgin Islands' research institute, he did business with the New Jersey scientific equipment supply company of which Nate was then Vice President. Business brought Nate often to the Caribbean -- and he just couldn't stay away, finally moving family and business to the island of Puerto Rico more than a decade ago. Nate was first elected to the Foundation's Board of Trustees in 1979 and remained an active member until his death in 1990. His interest in the Foundation, however, long preceded his membership on the Board. His wise counsel, never-failing optimism, and steadfast support were important to IRF's founders, particularly during the Foundation's first halting years. A decent and gentle man has left us much too soon, and we shall miss him very much.

POST-HURRICANE HUGO ENVIRONMENTAL RECOVERY STRATEGY FOR THE U.S. VIRGIN ISLANDS

On September 17, 1989, Hurricane Hugo, among the fiercest storms of this century, past directly over the Virgin Islands devastating much of this U.S. Territory and inflicting heavy damage on the coastal environment and its resources. In the months after the disaster, the V.I. Department of Planning and Natural Resources (DPNR) developed a broadly-conceived programmatic response to Hugo and its devastation which acquired the somewhat cumbersome administrative title of *"Territorial Post-Hurricane Hugo Environmental Recovery Strategy."*

With the overall goal of enhancing the recovery of coastal environmental systems damaged by Hugo, the recovery strategy calls for (1) a thorough assessment of the environmental systems and site-specific damages inflicted by Hugo, (2) the design of monitoring and damage mitigation plans for sites identified as warranting parks and protected areas status, and (3) the development of a plan for reducing damage in future natural disasters by Government acquisition of hazard-prone and environmentally sensitive areas. The last objective includes preparation of a feasibility study for the immediate development of a Virgin Islands Territorial Park System.

In order to achieve these ambitious goals, the Department sought and received the assistance of a broad base of experts, including -- in addition to the Department's own resource management units -- personnel from the Woods Hole Oceanographic Institution, U.S. Army Corps of Engineers, U.S. National Park Service/Southeast Regional Office, The Nature Conservancy, U.S. Fish and Wildlife Service, Sea Grant Program/University of the Virgin Islands, Virgin Islands Extension Service, and the Virgin Islands National Park.

Providing critical coordinating and management functions for this complex park systems planning project is Island Resources Founda-

tion, with President Ed Towle serving as project director, assisted by **Adrian Schottroff**, a geologist/biologist who joined IRF's St. Thomas staff in mid-1990, and **Jean-Pierre Bacle** from IRF's Washington office, who handled air photo interpretation and mapping tasks. Additionally, **Roy Watlington**, currently on leave from his faculty position at the University of the Virgin Islands, joined IRF's project team for several months, as did several IRF Research Associates.

At the project's commencement in June, 52 Hugo-impacted sites were identified for initial damage assessment. Following preliminary analysis and reporting, 35 active sites were identified, each of which required additional assessment through a combination of site visits and air photo interpretation. The volume of material

assembled by IRF in this multi-layered assessment process has been staggering. Much of the damage assessment information has been computerized in a flat data base.

As 1990 drew to a close, the list of "priority sites" had been narrowed to approximately one dozen, including both recreational areas and natural areas on all three Virgin Islands -- St. Croix, St. Thomas, and St. John. Work will continue on developing required intervention strategies for the priority sites and establishing land acquisition requirements, including appraisals and costing scenarios, for each. The final product will constitute what is in effect a feasibility report outlining how Government is to turn the high priority, Hugo-damaged sites into a viable territorial park system. Final results will be available early in 1991.

TOWLE HEADS COMMISSION OF INQUIRY IN BERMUDA

In November IRF President Edward Towle was invited by the Governor of Bermuda to head a three-member Commission of Inquiry to examine the future of the fishing industry and long-term protection of the marine environment in Bermuda. The Commission came into being as a result of Government action earlier in the year to ban the use of fish pots, a measure designed to protect diminishing reef fish stocks. When opposition to the ban was expressed by local fishermen, the House of Assembly asked the Governor to set up the Commission of Inquiry.

In three weeks of both public and closed-session hearings, the Commission heard testimony from Government resource managers, local scientific experts, and aggrieved fishermen, which resulted in thousands of pages of testimony to be shifted through by the panel in reaching its conclusions. The immediate issue was the right of fishermen to pursue their profession using traditional fishing methods versus the right of the state to impose restrictions in order to manage a threatened resource. Larger issues concerned the future prospects of the fishing industry in Bermuda and the adequacy of local efforts to protect the marine environment generally.

When asked about the Commission's mandate, Towle commented in the Bermudian press that, "while it is not difficult to make decisions, it is extremely difficult to make the *right* decisions." The Commission's conclusions (to be released early in 1991) will have a significant impact on Bermuda resource management policies for years to come and might even provide a few "lessons learned" analogies for the islands of the Caribbean. Upon his return to St. Thomas, Towle, who was making his first visit to Bermuda, remarked on the obvious effectiveness of Bermuda's planning and growth management strategies, which could be observed in everything from control of vehicular traffic to enforcement of building code standards to an almost total absence of litter and roadside debris.

HONOR ROLL OF DONORS

Listed below are the individuals, organizations and corporations who have, since the Foundation's establishment in 1971, consistently and generously provided unrestricted institutional support to Island Resources Foundation, primarily in the form of annual memberships. We are sincerely grateful to all these generous friends and donors and take this opportunity to acknowledge this important source of support.

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- as gifts from current income
- as donations of property,
- stocks, bonds, insurance or annuities
- through bequests and wills.

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Life Membership	US\$ 500.

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Donor	US\$ 500.
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* 25% discount on publications for members

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PRE-PRINT COPIES OF COUNTRY ENVIRONMENTAL PROFILES AVAILABLE FROM IRF

Although it is expected that funding will be available to publish all of the *Country Environmental Profiles* included in the CEP series for the Eastern Caribbean, in the interim, Island Resources Foundation will make available (at cost) photocopies of individual reports.

ORDER INFORMATION. Send requests with pre-payment to:

Publications Office, Island Resources Foundation
1718 P Street, Northwest, Suite T4
Washington, DC 20036 USA.

A US\$4.00 handling charge will be added to each order under \$50; US\$5.00 will be added for orders over \$50. When ordering, specify whether order should be shipped priority mail OR fourth class book rate for U.S. addresses; air mail OR printed matter (surface) rate for non-U.S. addresses. Please note that orders must be **PRE-PAID**, except for postage which will be added and billed separately.

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Each Country Environmental Profile (or CEP) is designed as a guide for future development planning and resource management decision-making in target Eastern Caribbean countries. A broad spectrum of sector-specific environment/development topics are examined (e.g., marine and terrestrial systems, parks and protected areas, wildlife, land use planning, agriculture, industry, energy, institutional capabilities). Each such topic constitutes a chapter or sub-chapter of the Profile, which is further sub-divided into three segments. First, a broad OVERVIEW is provided which constitutes a mini "state of the environment" summary for each key resource sector. Secondly, an analysis of PRIORITY ENVIRONMENTAL ISSUES OR PROBLEMS within each sector is presented, followed, lastly, by POLICY RECOMMENDATIONS AND GUIDELINES, which are also sector-specific. The latter are found at the end of each chapter, or sub-chapter, and establish a new resource management agenda for governments, NGOs, donor groups, and resource managers working in the Eastern Caribbean. Each Profile includes an introductory chapter that gives background information on the general environmental setting for the country and reviews the historical, economic, and social context within which environmental decision-making must take place. A comprehensive bibliography of source materials dealing with resource development and environmental management is contained within each Profile. Most references deal specifically with the target country or the Eastern Caribbean sub-region. Each bibliography represents the most thorough assemblage of such reference material to be published to date.

	<u>Pre-Print Cost</u>
ANTIGUA-BARBUDA COUNTRY ENVIRONMENTAL PROFILE (draft CEP: August 1990; final CEP: December 1990)	US\$ 25.00
DOMINICA COUNTRY ENVIRONMENTAL PROFILE (draft CEP: June 1990; final CEP: December 1990)	US\$ 27.00
GRENADA COUNTRY ENVIRONMENTAL PROFILE (draft CEP: February 1990; final CEP: December 1990)	US\$ 32.00
ST. KITTS-NEVIS COUNTRY ENVIRONMENTAL PROFILE (draft CEP: September 1990; final CEP: December 1990)	US\$ 32.00
ST. LUCIA COUNTRY ENVIRONMENTAL PROFILE (draft CEP: June 1988; final CEP: November 1990)	US\$ 42.00
ST. VINCENT AND THE GRENADINES COUNTRY ENVIRONMENTAL PROFILE (draft CEP: June 1990; final CEP: December 1990)	US\$ 27.00
Discount price for entire six-volume CEP Series for the Eastern Caribbean	US\$ 175.00

(January 1991)

EASTERN CARIBBEAN COUNTRY ENVIRONMENTAL PROFILE (CEP) PROJECT, 1987 - 1990

A Cooperative Effort of Collaborating Institutions, Governments, NGOs, and Individuals

PROJECT LEADERSHIP:

Caribbean Conservation Association (CCA), Project Management
Island Resources Foundation (IRF), Technical Coordination

PROJECT FUNDING:

U.S. Agency for International Development (AID)

AID PROJECT OFFICER: Rebecca Niec

PROJECT DIRECTOR:

Michael King, Executive Director, CCA (1987-1989)
Calvin A. Howell, Executive Director (Ag.), CCA (1989-1990)
Ronald A. Williams, Executive Director, CCA (1990)

CEP PROJECT TEAM LEADER:

Edward L. Towle, President, IRF

EDITOR, CEP REPORT SERIES:

Judith A. Towle, Vice President, IRF

GRAPHICS AND DESIGN, CEP REPORT SERIES:

Jean-Pierre Bacle, IRF Staff Associate

ANTIGUA-BARBUDA CEP

IRF Country Coordinator:

Bruce J. Horwith

198 pp. + 43 tables, 35 figures and 20 page bibliography; 11 contributing researchers and primary writers; in-country review and project oversight provided by a 17-member CEP National Committee

Government Liaison:

Historical, Conservation and Environmental Commission (HCEC)

NGO Coordinator:

Antigua Environmental Awareness Group

CEP National Committee Chairman:

Oscar Bird, Chairman, HCEC

DOMINICA CEP

IRF Country Coordinator:

Avrum J. Shriar

212 pp. + 45 tables, 40 figures and 27 page bibliography; 8 contributing researchers and primary writers; in-country review and project oversight provided by a 16-member CEP National Committee

Dominica Country Coordinator:

Roma Douglas

Government Liaison:

Division of Forestry and Wildlife

NGO Coordinator:

Dominica YES Committee

CEP National Committee Chairman:

Felix Gregoire, Director
Division of Forestry and Wildlife

GRENADA CEP

IRF Country Coordinator:

A. Robert Teytaud

252 pp. + 40 tables, 59 figures and 24 page bibliography; 7 contributing researchers and primary writers; in-country review and project oversight provided by a 41-member CEP National Technical Committee

Government Liaison:

Ministry of Agriculture

NGO Coordinator:

Grenada National Trust

CEP National Committee Chairman:

Charles H. Francis, Land Use Officer
Ministry of Agriculture

ST. KITTS-NEVIS CEP

Government Liaison:

Ministry of Agriculture

252 pp. + 60 tables, 55 figures and 25 page bibliography; 21 contributing researchers and primary writers; in-country review and project oversight provided by a 14-member CEP National Committee and a 27-member Nevis Sub-Committee

St. Kitts NGO Coordinator:

St. Christopher Heritage Society

Nevis NGO Coordinator:

Nevis Historical and Conservation Society

CEP National Committee Chairman:

Valdemar Warner, Permanent Secretary
Agriculture, Lands, and Housing

ST. LUCIA CEP

IRF Country Coordinators:

Edward Towle and Paul Hippolyte

331 pp. + 82 tables, 51 figures and 30 page bibliography; 31 contributing researchers and/or primary writers; in-country review and project oversight provided by a 15-member CEP National Committee

Government Liaison:

Central Planning Unit

NGO Coordinator:

National Research and Development
Foundation of St. Lucia

ST. VINCENT-GRENADINES CEP

IRF Country Coordinator:

A. Robert Teytaud

212 pp. + 36 tables, 55 figures and 20 page bibliography; 6 contributing researchers and primary writers; in-country review and project oversight provided by a 19-member CEP National Committee

Government Liaison:

Ministry of Health and the Environment

NGO Coordinator:

St. Vincent National Trust

CEP National Committee Chairman:

Daniel Cummings, Manager
Central Water and Sewerage Authority