

ISLAND RESOURCES FOUNDATION

Caribbean Headquarters

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1986 YEAR END PROGRAM SUMMARY

To IRF's Members, Friends, and Colleagues --

As 1986 enters its final weeks, we are pleased to bring you up-to-date on the continuing saga of Island Resources Foundation -- each year a little more solidly established than before, each year seeing a little more hard steel of experience in our performance "track" with ever more complex environmental research projects and technical assistance programs serving small island systems, especially in the Eastern Caribbean.

It has been an interesting year on all fronts.

LAND STEWARDSHIP

More land (26.2 acres) on St. John at Fish Bay has been donated to IRF as an addition to our existing 22 acre Fish Bay Nature Reserve holdings. By the end of 1986 we expect another five acre gift (which will bring the total to well over 50 acres, including nearly a half mile of shoreline).

IRF now holds in excess of 550 acres of land (worth over one million dollars) in protected area status. Management plans for each area are currently being developed.

NEW LONG TERM PROJECTS (1986 - 1988)

- The first, funded by the World Wildlife Fund-US and the Rockefeller Brothers Fund, addresses the need to institutionally strengthen small, non-government organizations (NGO's) in the Eastern Caribbean, particularly those engaged in programs which focus exclusively or in part on natural resource management issues. During the next two years IRF will work with both traditional conservation organizations and with business and professional groups, such as chambers of commerce, hotel associations or service clubs, in an effort to improve the NGO role in decision-making about development and resource management issues.

To this end, an eight-island survey of NGO's is being carried out by IRF which will establish a database and "institutional profile" of Eastern Caribbean non-government organizations, including identification of those with the immediate capacity for institutional growth. A mini-grant fund will be used to assist targeted groups and other technical assistance will be provided. [Project Leaders: Edward Towle, Judith Towle and Bruce Potter]

- Secondly, we are about to undertake a 20 month cooperative venture with the Caribbean Conservation Association in Barbados to produce an "environmental profile" for eight Eastern Caribbean countries. The project is funded, under a Congressional mandate, by the U.S. Agency for International Development (USAID) and will identify key environmental issues requiring follow-up action in the eight target areas. An interdisciplinary team of specialists, under the direction of IRF and the sponsorship of CCA, will assist counterpart profile committees in each country, examining "topics" ranging from marine and terrestrial systems to parks and protected areas, land use planning, and energy systems, and including environmental law, institutional capabilities, and the interrelationship of resource management and economic growth in each of the Eastern Caribbean islands. An environmental profile document will be completed and published for each country to be used as a guide in future development planning and resource management.

- Thirdly, IRF has secured preliminary funding from Mr. Laurance S. Rockefeller to establish an environmental research fellowship or internship at IRF in the name of the late Euan McFarlane, who served as a member of the IRF Board of Trustees for many years prior to his death; the Rockefeller funding will be used as "seed" dollars to help the IRF Board identify additional funds for a full annual fellowship award program;

- Finally, IRF staff have designed, assembled and provided services for an information exchange network of over 900 persons engaged in international coastal management projects; the database is maintained on computers at IRF's Washington office where three newsletters on the coastal zone have also been disseminated; this database network (called "Campnet") is a cooperative project of IRF, the US National Park Service, the Griffis Foundation, the University of Rhode Island, and the South Carolina Sea Grant Consortium [Newsletter Editor: Dr. John Clark].

COMPLETED PROJECTS, 1986

In St. Kitts, the Foundation has completed a detailed environmental assessment report (February) and land use management plan (June) for the island's Southeast Peninsula, an area slated for major tourism and recreational development. The studies were funded by USAID prior to announcement in September that AID will provide construction funds for the access road to open the Peninsula for development. IRF's environmental assessment report was well received by the funding agency, and the land use management plan developed by IRF will assist Government in the establishment of Peninsula development guidelines. A total of 15 IRF research associates, staff and consultants, drawn principally from the Caribbean region, participated in the nine month effort.

Closer to our home base in the Virgin Islands --

- the Virgin Islands Resource Management Cooperative (VIRMC), comprised of US Virgin Islands, British Virgin Islands, and Puerto Rican research institutions, is now in its third year of carrying out studies within the Virgin Islands Biosphere Reserve on St. John. IRF serves as the contract administrator for this joint venture which involves eight cooperating institutions, over \$400,000 in funding from the US National Park Service, and a series of 30 research projects. First year research reports have been published and are being disseminated to participating institutions and selected repositories. Those wishing to purchase copies of any of the 13 reports should request a copy of the price list from IRF/St. Thomas.

- With funding from the VI Humanities Council, the Foundation implemented a series of research and educational activities designed to document the contribution of plantation and peasant production systems in land use development on St. John. Under the direction of project director, George Tyson, community lectures and school field trips were organized, historical publications supported, and an interpretive exhibit prepared for permanent display at the Cinnamon Bay Campgrounds operated by the VI National Park.

- As part of a larger effort funded by the US Fish and Wildlife Service, IRF carried out a contracted study to assess the vulnerability of coastal areas in the Virgin Islands and Puerto Rico. The project was designed to assist management agencies in better predicting those portions of the coastline at greatest risk. IRF's PI for the project was Dr. Caroline Rogers, research biologist for the VI National Park, who was assisted by IRF's 1985 summer interns from Yale University, Betsey McGean and Ken Andrasko.

Finally, in 1986, the Foundation --

- completed field work for an AID-funded assessment of agricultural pesticide impact on Caribbean wildlife (study site: Dominica); the University of Puerto Rico is carrying out laboratory analyses under the direction of project director, Dr. William Rainey, who has been assisted by IRF Trustee, Nate Schurer in Puerto Rico.

- has re-issued in a new and expanded format its 1985 Fisheries Sector Assessment of eight Eastern Caribbean islands [Project Director: Dr. Melvin Goodwin]. Taken as a whole, this study plus the two St. Kitts reports mentioned above (all funded by USAID), represent an important contribution to an expanding natural resource management information base on Eastern Caribbean islands.

IRF's INSTITUTIONAL STATUS

We are also pleased to announce that during this last year IRF was officially registered by USAID as a PVO (Private Voluntary Organization). The PVO status not only recognizes IRF's increasing involvement in the development process in Third World countries but also enables the Foundation to take advantage of certain funding resources only available to PVO's.

At a global level, IRF remains the only non-government institution solely dedicated to providing professional counsel and services to small islands. Our uniqueness in this regard was given special recognition at a recent international meeting of island experts convened in Puerto Rico on the general theme of "sustainable development and environmental management of small islands" (Mr. William S. Beller, conference chairperson). A joint paper by IRF associates Jerome McElroy, Bruce Potter, and Edward Towle provided an economic analysis and status report on small Caribbean island development, and similar presentations were made for other oceanic island regions throughout the developing world. Official sponsors of the sessions included the U.S. State Department (through its Man and the Biosphere Program), UN Conference on Trade and Development (UNCTAD), UNESCO, UN Environment Programme (UNEP), and others.

Our gifts, grants and contract funding for the last fiscal year again exceeded \$400,000, although we did not quite reach our target of \$500,000 for fiscal year 1986. Nevertheless, we believe that during this last year the Foundation continued along its traditional path of orderly, incremental growth.

Emerging new challenges and opportunities for 1987 include:

- IRF participation in a regional three year Eastern Caribbean project sponsored by the Commonwealth Science Council and the Canadian International Development Agency to establish country level and regional coastal zone management programs (IRF's president is chairperson of the Economic Working Group and a member of the Technical Advisory Committee to this 1.2 million (US\$) dollar project);
- IRF participation in the Organization of Eastern Caribbean State's (OECS) Natural Resource Management Project funded by German AID (GTZ) and OAS;
- IRF assistance in the establishment of a regional environmental information database and computer network in the Caribbean basin.

December 3, 1986

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RECENT IRF REPORTS and PUBLICATIONS - 1986

Virgin Islands Biosphere Reserve Research Report Series

The following reports have been published jointly by the U.S. National Park Service and the Virgin Islands Resource Management Cooperative (VIRMC), 1986, as a part of ongoing research, resource management, and educational activities related to the Virgin Islands Biosphere Reserve on the island of St. John. Xeroxed copies of individual reports in the series may be purchased from Island Resources Foundation, which has acted as the local contracting agent for VIRMC since its formation in 1982.

		<u>Price</u>	<u>Send</u>
Report #1	EXECUTIVE SUMMARY AND REPORT ABSTRACTS	Forthcoming	
Report #2	Beets, J., Lewand, L., and Zullo, E., MARINE COMMUNITY DESCRIPTIONS AND MAPS OF BAYS WITHIN THE VIRGIN ISLANDS NATIONAL PARK/BIOSPHERE RESERVE. 118 pp., including maps, figures, and tables.	\$15.00	[]
Report #3	Beets, J. and Lewand, L., COLLECTION OF COMMON ORGANISMS WITHIN THE VIRGIN ISLANDS NATIONAL PARK/BIOSPHERE RESERVE. 45 pp.	\$ 6.00	[]
Report #4	Anderson, M., Lund, H., Gladfelter, E., and Davis, M., ECOLOGICAL COMMUNITY TYPE MAPS AND BIOLOGICAL DESCRIPTIONS FOR BUCK ISLAND REEF NATIONAL MONUMENT AND PROPOSED MARINE PARK SITES IN THE BRITISH VIRGIN ISLANDS. 249 pp., including maps.	\$37.50	[]
Report #5	Lund, H., Anderson, M., Gladfelter, E., and Davis, M., TRENDS IN RECREATIONAL BOATING IN THE BRITISH VIRGIN ISLANDS: A PRELIMINARY ASSESSMENT OF IMPACT FROM HUMAN ACTIVITIES ON ANCHORAGES AND DEVELOPMENT OF A MONITORING PROGRAM FOR SAFE ANCHORAGES. 40 pp.	\$ 6.00	[]
Report #6	Davis, M., Gladfelter, E., Lund, H., and Anderson, M., GEOGRAPHIC RANGE AND RESEARCH PLAN FOR MONITORING WHITE BAND DISEASE. 28 pp.	\$ 4.50	[]
Report #7	Gladfelter, E., Anderson, M., Lund, H., Davis, M., MARINE ECOSYSTEMS OF THE LESSER ANTILLES: IDENTIFICATION OF REPRESENTATIVE SITES. 44 pp.	\$ 6.00	[]
Report #8	Boulon, R., MAP OF FISHERY HABITATS WITHIN THE VIRGIN ISLANDS BIOSPHERE RESERVE. 70 pp., including maps.	\$12.00	[]
Report #9	Boulon, R., FISHERIES HABITAT OF THE VIRGIN ISLANDS REGION OF ECOLOGICAL IMPORTANCE TO THE FISHERY RESOURCES OF THE VIRGIN ISLANDS BIOSPHERE RESERVE. 22 pp.	\$ 3.50	[]
Report #10	Dammann, A., ASSESSMENT OF FISH AND SHELLFISH STOCKS PRODUCED IN THE BIOSPHERE RESERVE. 30 pp.	\$ 4.50	[]
Report #11	Boulon, R. and Clavijo, I., UTILIZATION OF THE VIRGIN ISLANDS BIOSPHERE RESERVE BY ARTISANAL FISHERMEN. 37 pp.	\$ 5.50	[]
Report #12	Koester, S., SOCIOECONOMIC AND CULTURAL ROLE OF FISHING AND SHELLFISHING IN THE VIRGIN ISLANDS BIOSPHERE RESERVE. 24 pp.	\$ 3.50	[]
Report #13	Boulon, R., LONG-TERM MONITORING OF FISHERIES IN THE VIRGIN ISLANDS BIOSPHERE RESERVE. 32 pp.	\$ 5.00	[]
Report #14	Goodwin, M., CHARACTERIZATION OF LESSER ANTILLEAN FISHERIES. 47 pp.	\$ 6.50	[]

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The Foundation can also make available a 30 minute video tape on the "biosphere reserve" concept as a resource management tool for developing countries. The tape focuses specifically on a workshop held at Caneel Bay, St. John in 1983 at the time the Virgin Islands National Park was formally dedicated as a international biosphere reserve, the only such site recognized by UNESCO in the Eastern Caribbean. A loan copy of the VIRGIN ISLANDS BIOSPHERE RESERVE video tape is available for a \$75.00 refundable deposit (specify whether 3/4" or 1/2" tape is required). A copy of the tape can also be purchased from the Foundation for \$90.00.

New or Reprinted Reports - 1986

- | | <u>Price</u> | <u>Send</u> |
|--|--------------|-------------|
| (1) Goodwin, M., Sandifer, P., Orbach, M., and Towle, E., <u>FISHERY SECTOR ASSESSMENT FOR THE EASTERN CARIBBEAN</u> , 155 pp., illustrated [Revised Ed.] | \$10.00 | [] |
| Prepared for U.S. AID's regional mission for the Caribbean, this report combines an evaluation of prior and ongoing fisheries development activity, existing constraints, needs and opportunities and presents a detailed proposed fishery development program for the region and the target countries: Antigua/Barbuda, Dominica, Grenada, Montserrat, St. Christopher/Nevis, St. Lucia, St. Vincent & the Grenadines. Reprint/update of 1985 report. | | |
| (2) Towle, E., et al., <u>ENVIRONMENTAL ASSESSMENT REPORT ON THE PROPOSED SOUTHEAST PENINSULA ACCESS ROAD, ST. KITTS, WEST INDIES</u> (200 pp.) | \$25.00 | [] |
| An environmental profile of a 4,000 acre peninsula on St. Kitts slated for a ten km penetration road and tourism development. Includes suggested mitigation strategies regarding landscape features, wildlife, erosion to reduce projected adverse impacts from road construction and subsequent tourism recreation development. | | |
| (3) Towle, E., et al., <u>LAND USE MANAGEMENT PLAN FOR THE SOUTHEAST PENINSULA, ST. KITTS, WEST INDIES</u> | \$30.00 | [] |
| Guidelines for development of the Peninsula, including land classification system, development planning controls, proposed institutional and legal framework, socio-economic considerations. Detailed land use maps provided. Prepared by 8 person IRF planning team. | | |
| (4) Rogers, C., et al., <u>PUERTO RICO AND THE VIRGIN ISLANDS COASTAL BARRIERS: SUMMARY REPORT</u> (92 pp.) | \$12.00 | [] |
| Prepared as part of a larger effort funded by the US Fish and Wildlife Service to assess the vulnerability of coastal areas and better predict those portions of the coastline at greatest risk. | | |
| (5) McElroy, J., Potter B., and Towle, E., <u>CHALLENGES FOR SUSTAINABLE DEVELOPMENT IN SMALL CARIBBEAN ISLANDS</u> | Forthcoming | |
| Invited paper presented at Inter-oceanic Workshop on Sustainable Development and Environmental Management of Small Islands held in San Juan, Puerto Rico in November, 1986, under the sponsorship of the US State Department's MAB Program, UNCTAD, UNESCO, UNEP, and others. | | |
| (6) Rainey, W., <u>DOMINICA (WEST INDIES) BANANA INDUSTRY REHABILITATION: PESTICIDE IMPACT ASSESSMENT</u> | \$ 4.50 | [] |
| USAID-funded study of agricultural pesticide impact on Caribbean Wildlife. | | |

ORDER INFORMATION

All items are quoted in U.S. dollars and will be mailed fourth class book rate to U.S. addresses or printed matter (surface) rate to non-U.S. locations UNLESS first class or air mail postage is specified with order. Postage will be billed directly. Additionally, handling charges are: \$3.00 for orders \$5.00-\$50.00 and \$5.00 for orders over \$50.00. Please send payment in U.S. currency by U.S. bank draft or international money order.

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