

Education for Sustainable Development Initiatives in the Caribbean

Janet Bedasse

Commission on Education and Communication

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This publication has been made possible in part by funding from IUCN Commission on Education and Communication and the technical input from the National Environment and Planning Agency of Jamaica, the National Environmental Education Committee, the ENACT Programme, and IUCN-CEC.

Published by: IUCN, Gland, Switzerland and Cambridge, UK in collaboration with National Environment and Planning Agency of Jamaica, National Environmental Education Committee, ENACT Programme



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Citation: Janet Bedasse, May 2002. *Education for Sustainable Development Initiatives in the Caribbean*. IUCN, Commission on Education and Communication, Gland, Switzerland and Cambridge, UK. 43 pp. report

Cover photo: United Nations Environment Programme Caribbean Environment Programme

Edited by: Gina Sanguinetti, National Environmental Education Committee Secretariat

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Education for Sustainable Development in the Caribbean – Activities and Contacts

INTRODUCTION

“Education, including formal education, public awareness and training, should be recognized as a process by which human beings and societies can reach their fullest potential. Education is critical for prompting sustainable development and improving the capacity of the people to address environment and development issues. ... To be effective, environment and development education should deal with the dynamics of both the physical/biological and socio-economic environment and human (which may include spiritual) development should be integrated in all disciplines, and should employ formal and non-formal methods and effective means of communication.”

- Agenda 21, Chapter 36

At a consultation meeting in Kingston, Jamaica in June 2000, Caribbean Environmental Education Practitioners who have direct experience in the delivery of ESD in the formal and non-formal sectors met to begin to devise a strategy for ESD in the Caribbean in accordance with the stipulations of Chapter 36 of Agenda 21.

The collective mission was defined as “To inform, lobby and facilitate policy makers, educators, media and other stakeholders for the development of a regional EE for SD strategy and programmes through effective networking and collaboration.”

One of the recommendations coming out of the consultation was that in order to help develop regional policy, ESD initiatives within the Caribbean must be documented. This document is the result of a three month long search via telephone, fax, email and websites to find the required information. It provides a snapshot of the many ESD initiatives in the Caribbean region and is not exhaustive.

The project was funded by the IUCN-Commission on Communication and Education (CEC) and implemented through Jamaica’s National Environmental Education Committee (NEEC), National Environment and Planning Agency (NEPA) and the CIDA/GOJ ENACT Programme.

Thanks to all who have contributed.

Education for Sustainable Development in the Caribbean – Activities and Contacts

IUCN - The World Conservation Union was founded in 1948 and brings together over 70 states, 112 government agencies, 735 NGOs, 35 affiliates, and some 10,000 scientists and experts from 181 countries in a unique worldwide partnership. Its mission is to influence, encourage and assist societies throughout the world to conserve the integrity and diversity of nature and to ensure that any use of natural resources is equitable and ecologically sustainable. Within the framework of global conventions IUCN has helped over 75 countries to prepare and implement national conservation and biodiversity strategies. IUCN has approximately 1000 staff, most of whom are located in its 42 regional and country offices while 100 work at its Headquarters in Gland, Switzerland.

IUCN Commission on Education and Communication – CEC

The Commission on Education and Communication is one of IUCN's six Commissions, a global network of voluntary, active and professional experts in environmental communication and education, who work in NGO, mass media, government and international organisations, professional networks and academic institutions. CEC members work daily with how to encourage people to take responsibility in their personal and social behaviour for the environment. CEC specialists are experts in learning processes, how behaviour is changed and in communication management.

CEC advises IUCN on how to plan and manage communication programmes, knowledge and learning. CEC undertakes training programmes in communication for IUCN members, gathers and analyses lessons from practice and shares these amongst IUCN constituents.

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National Environment and Planning Agency - NEPA

Jamaica's National Environment and Planning Agency was formed in 2001 by the merger of the Natural Resources Conservation Authority, the Town Planning Department, and the Land Development Utilisation Commission. NEPA's mission is to encourage and facilitate sustainable, orderly development within the island through collaboration with other public sector agencies as well as the private sector and general public. NEPA is responsible for monitoring the natural resource assets and the state of Jamaica's environment; processing environmental and development applications and permits; and developing national environment and development policies.

National Environmental Education Committee - NEEC

Jamaica's National Environmental Education Committee was created in 1991 by the Natural Resources Conservation Authority to guide and mobilize environmental education activities in Jamaica. It is a multi-stakeholder body with members from the public, private and NGO sectors who are charged with promoting environmental education for sustainable development within their target constituencies. Through a participatory process involving over 300 Jamaicans, the NEEC developed the National Environmental Education Action Plan for Sustainable Development in 1998 which is currently being implemented.

Environmental Action Programme - ENACT

The Environmental Action Programme is a ten-year bi-lateral programme promoting sustainable development by developing the capacity of key strategic players at the government, private sector, community and general public levels to manage Jamaica's natural resources in a sustainable way. The ENACT programme is funded by Government of Jamaica and the Canadian International Development Agency (CIDA) and implemented through the National Environment and Planning Agency and a Canadian joint venture Dessau-Soprin & Marbek. ENACT ends in 2004.

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ANTIGUA & BARBUDA								
The Antiguan Racer Conservation Project which began in 1994 will continue indefinitely as it aims to conserve the critically endangered Antiguan Racer snake and its natural habitat. Additionally, it aims to enhance biodiversity conservation efforts in Antigua and Barbuda, with particular focus on the offshore islands of Antigua. www.antiguanracer.org	Gov't / NGO					*	*	Dianne Black Layne: Environment Division Min. of Tourism & Environment Tel.(268)462-4625 Fax(268)460-6093 environment@antiguabarbuda.net Ato Lewis Environment Division Min. of Tourism & Environment Tel.(268)460-7278 environment@antiguabarbuda.net Sherrod James Environmental Awareness Group eag@candw.ag Tel.# 268-462-6236 Fax# 268-463-7740

F = Formal Education N = Non-formal Education P = Policy, Procedures & Protocols T = Training R = Managing Natural Resources A = Awareness Raising

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The “ Hello Tourist ”(see <i>Puerto Rico</i>) programme began in Antigua in 1996 with 7 schools, in partnership with the Department of Education and the Caribbean Hotel Association. – The focus now is to strengthen and expand the program to other schools.	Private Sector						*	Cynthia Simon Antigua Hotel & Tourist Assn. Tel. 268-462-0374/3703 Fax 268-462-3702 ahta@candw.ag
ANGUILLA								
An EE Curriculum has been developed for Primary Schools and the approach is to infuse EE into the syllabus of several subject areas. The objective of this curriculum is to provide direction, focus and rationale for infusing environmental education into the Anguillan primary curriculum leading to “environmental literacy” for all students.	Gov’t	*						Leslie Richardson Dept. of Environment Chief-minister@gov.ai lesmarv@hotmail.com Tel. 264-497-2451/3098
The “ Hello Tourist ” (see <i>Puerto Rico</i>) Programme is implemented in collaboration with the Department of Education in all 9 Primary Schools on the island and all the children (about 90) get an overnight stay in a hotel. They have annual teacher training and planning of yearly curriculum. Each year has a focus e.g. some aspect of the environment or hotels. The programme exists for 2 weeks as part of the social studies curriculum.	Gov’t						*	Ena Boasman-Hodge Anguilla Tourist Board Tel 264-497-2759
BAHAMAS								
The Government implemented the Bahamian National Integrated Planning Structure for Sustainable Development . (BNIPSSD) in 1990. The Planning Structure comprises the five Government Agencies including the Ministry of Education and many NGOs	Gov’t	*		*				Beverley J. T. Taylor Ministry of Education bjtt@hotmail.com Tel. 242-356-5109 242-322-8140
The Bahamas Environmental Education Programme (BEEP) (started in 1990 as the ESD component of BNIPSSD) is a seven-pronged programme		*			*		*	

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which includes 1. Provision of scholarships 2. Preparation, Planning, Training (Technical staff) 3. Establishment of Support Groups 4. Strengthening of Partnerships 5. Development of resource Materials 6. Curriculum Development 7. Environmental Awareness. The school programme comprises: Environmental issues; Solid waste management; Vector control; Clean school/beautification awards; Conservation; Preservation; Environmental Stewards and Marshalls; 4H Clubs; Junior Pride clubs; Science Clubs; UNESCO ASPnet; UNESCO Clubs								
The Dolphin Encounter Project has developed education programmes for Bahamian school teachers and children. These programmes emphasize teaching children about the ocean environment and marine conservation. Since its conception in 1989, the mission of Dolphin Encounters has been to create a “once-in-a-lifetime experience” in which the general public learns about marine mammals and the oceans through interactive, educational dolphin programs.	NGO		*		*	*	*	Annette Dempsey Dolphin Encounters Dempseyannette@hotmail.com Tel. 242-394-2200 Fax 242-394-2244
There has been the establishment of Sustainable Tourism Development Unit in 1993, with a mandate to implement, in conjunction with other government and private sector agencies, “Sustainable Tourism Policies,; with emphasis on “ecotourism” which the Government regards as “a powerful instrument for sustainable development of Family Island communities.”	Gov’t			*				Nakira Gaskin BEST Commission ngaskin@hotmail.com
The Bahamas Environment, Science and Technology (BEST) Commission was established in 1994. It held two workshops in 2000, which were geared towards Public Education and brought scientists, professionals, students and	Gov’t		*				*	

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interested citizenry together to discuss environmental matters relating to the Bahamas. Two others were scheduled for 2001. The Annual Children’s Environmental Summit was started in 1996 to, among other things: 1. Provide a forum, which encourages innovative creativity among students, where they can share, ideas about conservation and sustainable development of the environment. 2. Create awareness in students as to how their activities impact on the Culture of Peace in the Environment. Workshops for hotel owners and operators, educators, government officials, ecotourism tour guides, potential investors, journalists and environment NGOs are being held. Topics include: Ecotourism Planning and Product Development, Green Management Strategic Planning and Ecotourism Train-the-Trainer. The following programs for travel partners and local residents have also been implemented: • Ecotourism awareness month – to educate people about ecotourism • Birdwatching Courses • Solar Energy Seminar • Sustainable Development Eco-lodge Architectural Design Competition and Workshop	Gov’t						*	
In 1995 the Bahamas National Trust introduced the “Discovery Club” for young members of the Trust between the ages of 6-14. Environmental Education is incorporated into the program and the young people earn badges on a variety of topics, i.e., Endangered Species, Birds, Science, Flora, National Parks and marine mammals, etc. The young people are also required to earn a camping badge and participate in two camping experiences through the years and if possible visit a National Park at the end of the year. Membership each year is	NGO		*				*	Lynn Gape Bahamas National Trust slarson@bahamas.net.bs Tel. 242-393-2848 242-583-1317

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approximately 30-50 young people. The Trust would like to package the Discovery Club program so that it can be run as an extra-curricular activity in Bahamian schools.								
BARBADOS								
The Ministry of Physical Development and Environment carries out public awareness campaigns in various issues. Ministry of Health has programmes for HIV/AIDS Education Issues of waste-management are also being dealt with by the Sewerage and Solid Waste Project Unit, Ministry of Health highlighting the 3R's – reduce, reuse and recycle. The Central Emergency Relief Organisation focuses on the importance of disaster preparedness.	Gov't Gov't Gov't		*				* * *	Amrikha Singh Ministry of Physical Development and Environment Tel. 246-431-7692 espu@caribsurf.com Mr. Ricardo Marshall Sewerage & Solid Waste Project Unit Ministry of Health solid@sunbeach.net Tel. 246-427-5910-1
Private Sector initiatives, e.g. the Nation Publishing Company has implemented the “Greening Barbados Campaign” and publishes a “Green Page” in the Nation newspaper.	Private Sector						*	Mr. Terry Ally Nation Publishing Co. Ltd. Tel. 246-430-5400 www.nationnews.com
The Ministry of Education's curricula were revised to include the environmental and development as cross-cutting issues. Audiovisual material is available for the promotion of environmental education. Curriculum 2000 – This programme encapsulates a vision for Barbados on the premise that human resources are critical for success in the new knowledge	Gov't Gov't	* *		*				Mr. Laurie King Ms Pamela Hart Ministry of Education Tel.. 246-430-2829

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based economy Edu-Tech 2000 – This project's primary goal is to increase the number of citizens contributing to the sustainable social and economic development of Barbados.	Gov't	*						
Rap sessions which encourage discourse on issues pertaining to sustainable development, at a multi-sectoral level.	NGO						*	Dr. Colin Hudson Treading Lightly Tel. 3246-42500073 treadlight@sunbeach.net
BELIZE								
Cornerstone Foundation is a Human Rights Organization. Its many projects include: - Feeding of schoolchildren who would not otherwise have any food for lunch; - Four publications annually which address healthy and sustainable practices. - Tree planting and landscaping projects at a new primary school in San Ignacio. Students, teachers, parents and community leaders are involved. - Occasional workshops for teachers and community members address language and computer skills, self esteem and empowerment and domestic violence support.	NGO		*				*	Pamela Van Deusen Cornerstone Foundation Tel. 501-92-2373 foundation@btl.net www.peacecorner.org/human_rights.htm
The Friends for Conservation organization addresses Environmental Interpretation in Natural and Cultural Areas (EINCA Programme.) This programme teaches people in communities how to manage and get involved with their protected areas. Topics addressed include: - Co-management, tourism and green laws workshops - Manual production - Interpretation and how to build trails and do guiding	NGO		*		*	*	*	Rafael Manzanero Derric Chan Friends for Conservation Development fcd@btl.net

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The Government has adopted the manual to teach co-management to government employees , NGOs and other Community – based Organizations School presentations are available on request The FCD/EINCA Children’s newspaper – “The Nature Observer”- reaches 5,500 children monthly.								
The Toledo Institute for Development & the Environment (TIDE) is a non-profit conservation group in Southern Belize that focuses on environmental and social issues. TIDE educates local community people on environmental issues e.g. alternatives to resource extractive practices. TIDE has several main areas of emphasis, one of which is Community Outreach and Education: Field trips take Mayan kids to the coast and Creole kids to the jungles; field trips take fishermen to other Belizean aquatic preserves to observe and learn of their rebounding fisheries. Provided watercrafts needed to protect gulf of Honduras from illegal foreign vessels and poaching. Also educates people on environmental issues and promotes ecotourism. TIDE has implemented: - Regular teachers’ summer workshops/study tours assist teachers in integrating conservation sciences into the classroom. - School visits - Annual Environmental Science Fair - Rural School Scholarship Program	NGO		*		*	*	*	Toledo Institute for Development & the Environment (TIDE) (information from web site) www.belizeecotours.org/belizeconservation
The Belize Zoo’s Education Department was established in 1986 with a commitment to achieving the following goals: - To heighten awareness and increase appreciation of the natural world	Gov’t		*			*	*	The Belize Zoo (Information from website) www.belizezoo.org/zoo/edu

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- To promote the recognition and understanding of Belize's unique ecosystems and diverse wildlife. - To instill sound knowledge, positive attitudes and valuable skills that will aid in the preservation of Belize's natural resources. The Belize Zoo education projects include Outreach Education Programs to educate the public about the Yellow-head parrot's habitat loss and nest robbing, and manatee conservation.								
The Belize Foundation for Research & Environmental Education (BFREE) coordinates and facilitates research of southern rainforests; provides environmental education to visitors and nationals; aids safeguarding of protected areas. Weekly newspaper column on marine ecology.	NGO		*			*	*	Belize Foundation for Research & Environmental Education (BFREE) (Information from the website) www.bfreebelize.org/whatis
Green Reef works with the San Pedro Tourist Guide Association to present training lecture series for individuals working toward obtaining Tourist Guide license. Works with the Coastal Zone Management Authority & Institute to present annual "Manatee Week". There has also been an annual Reef Festival since 1997.	NGO					*	*	Green Reef (Information taken from website) www.greenreefbelize.com/pr og-enviroded
Some of the specific objectives of the Belize Audubon Society's Environmental Education Program and ways of realizing these objectives include: - Disseminating factual information on the environment - Educating people about nature through their senses - Developing skills of problem solving environmental issues through environmental centers at the protected areas - Compiling and assessing written environmental education materials	NGO		*				*	Belize Audubon Society (Information taken from the website) www.belizeaudubon.org

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produced about Belize. - Producing high quality environmental education publications - Developing programs within existing youth clubs/groups - Promoting understanding and awareness of current environmental issues affecting Belize - Developing programs that cover current issues, outside the school curriculum and divide the work with other NGOs and government departments - Establishing a scholarship program for secondary school children at protected areas education centers - Promoting children's membership in the Society Establishing public awareness campaigns for businessmen, politicians, large landowners, and immigrants.								
The Protected Areas Conservation Trust (PACT) was established in 1996 as a statutory body after several years of consultation and meetings with various non-government organizations, government departments, private sector and international conservation organizations. The PACT Act introduced a conservation fee per visitor to be paid on departure and a 20% commission from cruise ship passenger fees. These constitute the primary source of funding for the trust fund and the endowment fund. Amongst other things the Trust establishes and maintains institutional arrangements, operational procedures and public awareness programs.	Gov't Statutory Body			*			*	Protected Areas Conservation Trust (PACT) (Information taken from website) www.pactbelize.org/press
BERMUDA								
A group (comprising government , academic and NGO representatives) which is partially government funded, is doing research on biodiversity. The next step will be the development of a Biodiversity Action Plan that includes a strand for environmental education for all stakeholders	Goverment			*				K. Joan Blades Bermuda Department of Education Tel 1 441 295 5614 bdaedcie@ibl.bm

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The “ Keep Bermuda Beautiful ” focus is on the abatement of litter. The organization is dedicated to action against the proliferation of litter and other environmental conditions damaging the beauty of Bermuda. It promotes through education awareness: the importance of Keeping Bermuda Beautiful.	NGO						*	Lennox Keep Bermuda Beautiful (KBB) admin@kbb.bm
“ Hello Tourist ” (<i>see Puerto Rico</i>)	Private sector						*	Barbara O’Shaugnessy Visitor Industry Partnership (VIP), Bermuda
The Bermuda Biodiversity Project, initiated in 1997, collates all available information describing the island’s biota to make this readily available through a relational database to identify gaps in knowledge and critical conservation priorities, and to support research aimed at resolving these issues. Current research includes the ongoing Bermuda Turtle Project, coral reef monitoring, terrestrial and marine habitat mapping and studies of the critically endangered skink. The organization has also spearheaded the development of Biodiversity Action Plan. The Bermuda Aquarium, Museum and Zoo Association (BAMZ) offers experience in the captive husbandry of fish, birds, reptiles and mammals. Exposure to exotic animal health care is supported by staff, the Government Veterinarian and collaborating experts in the American Zoo and Aquarium Association. This program is available to upper division undergraduates, graduate students or recent graduates of a university science program with internship up to 3 months. Financial assistance available through the Friends of the Bermuda Aquarium	NGO		*		*	*	*	Jennifer Gray Coordinator Bermuda Turtle Project & Bermuda Aquarium, Museum and Zoo (BAMZ) Tel 441 293-2727 ext 122 Fax 441 293-3176 jgray.bamz@ibl.bm
The JASON Project X implemented by the Bermuda Biological Station for Research (BBSR) informs the public about the role rainforests play in the environment.	NGO		*		*		*	Bermuda Biological Station for Research (BBSR), Inc. information taken from the website)

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The Bermuda Schools Science Enrichment Program with financing from the Texaco Foundation and the Bermudan Government enhances environmental education for Bermuda's public schools and is implemented by BBSR.. Public school science teachers have the opportunity to enroll in intensive courses dealing with Bermuda's environmental education; primary school teachers are assisted in their understanding and teaching of the scientific aspects of their curricula.								www.bbsr.edu/Press
BONAIRE								
"HelloTourist" (<i>see Puerto Rico</i>)	Private Sector						*	Alex Titcombe Tel.# 787-725-9139 atitcombe@caribbeanhotels.org
CAYMAN ISLANDS								
Science Department, Ministry of Education Environment Educator working in Cayman Brac schools. National Trust does workshops for teachers of Science and Social Studies. All EE programmes include concept of Sustainable Development. Science Department develops resource materials e.g. "Coral Forest" and "Marvellous Mangroves"booklets	Gov't	*			*		*	Fred Speirs Science Department Ministry of Education fspeirs@candw.ky
Department of Environment There is an Eco-Tourism project on the Cayman Brac Island. It includes a walking tour with interpretive talks. Both Dept. of Environment and the National Trust produce information brochures, conduct talks at schools, etc., and man information booths at local fairs A programme which tells about the West Indian Whistling Duck is used by the National Trust in their EE sessions with Primary School children.	Gov't/ EU/ ENGO		*				*	John Bothwell Dept. of Environment Tel. 345-949-8469 Fax 345-949-4020 John.Bothwell@gov.ky
CUBA								
Ministry of Science, Technology and Environment	Gov't	*	*	*			*	Dr. Jorge Mario Garcia

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Cuba has developed a National Environmental Strategy. One of the tools for its implementation is the National Environmental Education Strategy , a 3-5 year ESD plan based on Agenda 21. There is a combined work/study program for “Education for Sustainable Development” which uses formal/non-formal/informal/trans-disciplinary/multi-disciplinary and inter disciplinary methods (radio, TV, film, etc.) Programs deal with ecosystem deterioration, loss of biodiversity, disharmony between society and nature and are targeted at the general population of adults and children.								Fernandez Ministry of Science, Technology & Environment Tel 537 296014 Fax 537 249031 jmario@ama.cu
CURACAO & the NETHERLAND ANTILLES								
Almost all of these islands have nature reserves and marine parks which have Environmental Education activities	NGO						*	Joan Pietersz Curacao Tourist Board c/o Alex Titcombe Tel. 787-725-9139 Fax 787-725-9166 atitcombe@caribbeanhotels.org
DOMINICA^c								
The Dominica Conservation Association has developed programmes which foster an interest in the Global Environment Facility’s (GEF) focal areas. Operational programs: Integrated Land and Water Multiple Focal Area Operational programs; Water body-based Operational Program; Promoting the Adoption of Renewable Energy by removing barriers and Reducing Implementation Costs; Removal of barriers to Energy Efficiency and Energy Conservation; Mountain Ecosystems;	NGO						*	Henry Shillingford Dominica Conservation Association Tel 767 448 4098 Fax 767 448 4334 (Information taken off website) www.undp.org/sgo/cty/LatinAmerica_Caribbean/Barbadoes/pfs4260.h

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Forest Ecosystems; Coastal, Marine and Freshwater Ecosystems; Arid and Semi Arid Ecosystems								
DOMINICAN REPUBLIC								
The Department of Environment and Natural Resources has an ongoing program to improve well-being through the knowledge and practice of environmental laws. Integration of EE in the national curricula for students and teachers is being pursued. The Dept. of Environment, Education & Culture (1 of 3 under the Secretary of State) produces print and audio-visual material to educate the public and private sectors and students.	Gov't	*			*	*		Faustina Varela Majia Environmental & Natural Resources Directora Direccion de Educacion Ambiental Tel 809-547-3888/2212 Fax 809-547-3057
GRENADA^C								
Through the Building Capacities for Environmental Sustainability in Grenada Project, Turtle Island Earth Stewards (TIES) is working with Friends of the Earth (FOE) and Ocean Spirits to improve citizens awareness regarding biodiversity conservation, maintenance of clean oceans, protection of fresh water supplies, agricultural pesticide and fertilizer use, and garbage disposal. YES program is an environmental education programme designed to heighten the awareness of participating students about local and global environmental issues. The programme is designed to assist schoolteachers in bringing practical environmental education and international development learning into the classroom. It allows students to acquire knowledge and skills that will allow them to contribute solutions to social, environmental and development challenges in their communities. The YES program is carried out in partnership	NGO	*			*		*	Turtle Island Earth Stewards (TIES) (Information taken from website) www.ties.bc.ca/yesProgram.htm

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with participating schools and responds to the educational needs and interests of each school, by working with all levels of participating school districts including school boards, administrators, teachers, maintenance, parents, students and local citizens. Ocean Spirit's main activities include a Turtle Rescue and Education Project and a Coral Reef Monitoring and Education Project. Workshops are conducted in schools. Friends of the Earth – teaches students about biodiversity and the importance of trees. Workshops on sustainable development held for adults and students.			*					
KIDO Research Station has several programmes to promote socio-environmental awareness enhancing youth resources through educational discovery, cultural exchange, and nature conservation in the Caribbean.			*				*	
GUADELOUPE								
The St. Bart's municipality is concerned with Sustainable Development. The government in Guadeloupe has developed a new system of treatment and elimination for garbage, glass batteries, tires, scraps. Nature Reserves and parks have EE projects. Summer camps, Beach clean-up, Whale watching. The St. Bart's Marine Reserve education staff visit schools once per year to make them aware of the importance of marine reserves, give more information on underwater sea-life and migration of the whales There is also a 3-year media campaign for educating adults and kids.	Gov't St. Barts & St. Martin linked to Guade loupe for Admin		*				*	Franciane Greaux Association GRENAT BP683 – Gustaria 97133 Saint Barthelmy St. Bart's Marine Reserve resnatbarth@wanadoo.fr
GUYANA^C								

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Guyana Marine Turtle Conservation Society – Summer camps with conservation theme. Outreach efforts concentrated in the indigenous communities. GMTCS believes that indigenous knowledge and local experience may be combined with educational activities to help communities have a better understanding of their environment. The aim of the environmental education programme is: - To promote positive change - To enable the Amerindian children from nearby communities to consider their impact on the environment To help alter activities which deplete natural resources and threaten sustainable livelihoods	NGO		*			*	*	Edith McClintock WWF Guianas EnvironmentProtection Agency emcclintock@www.fsuriname.net WWF Guianas EnvironmentProtection Agency Annette Arjoon Guyana Marine Turtle Conservation Society gmtcs@networksgy.com www.gmtcs.gy
The process of curriculum review has been initiated at the primary level and already a curriculum audit for all four curricular areas at a specific level has been completed. Based on the audit, environmental education curricular supplements have been prepared and teacher-training workshops have been implemented since September 2001. Under the Environment Protection Agency/United Nations Development Programme Environmental Education Awareness Project Environmental Clubs are being formed in schools.: The Environment Protection Agency (EPA) granted certificates of affiliation to school environment clubs to create awareness for environmental protection and to encourage the involvement of other schools. Once a school club is vibrant and working the EPA recognizes them as affiliates not merely in name but in sharing information and resources. The EPA is committed to providing resource persons and if the schools come up with	Gov't	*		*			*	Dr. Rovin Deodat Environment Protection Agency (EPA) epa@epaguyana.org Tel. 592-222-6703 592-222-2277 592-222-5785 Fax 592-222-2442

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projects to assist in seeking financiers as well. Most clubs concentrate on cleaning of the environment. Public Awareness Programs and stakeholder consultations on Pollution Regulations. Environmental Management Workshops targeting Local Government Officials (LGOs) have been conducted in all ten regions of Guyana. These workshops aimed at raising awareness of LGOs on solid waste management, environmental impact assessment and pollution Media Practitioners and operators of advertising agencies were involved in two 1 day workshops which aimed at sensitizing them to environmental issues and their responsibility and role in promoting environmental education. Series of workshops held on Coastal Zone Management in all the coastal regions of Guyana. Four workshops were conducted to create awareness of biodiversity issues. An information and documentation center is being established at the EPA. A number of workshops have been conducted for public and private sector agencies on the subject of Environmental Impact assessments. The aim of these workshops was not only to impart knowledge and skills in EIA but also to foster cooperation between the Environment Protection Agency and Natural Resource Agencies as development proposals are channeled through the latter agencies.								
Iwokrama's mission is to promote the conservation and the sustainable use of tropical rain forests in a manner that will lead to lasting ecological, economic, and social benefits to the people of Guyana and to the world in general by	Acade-mic				*	*	*	Kathryn Monk Iwokrama International Centre for Rain Forest

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undertaking research, training and the development and dissemination of technologies.								Conservation & Development Tel.#(592)225-1504 iwokrama@iwokrama.org
HAITI^c								
The Ministry of Education with support of UNFPA and UNESCO has embarked on teacher training programs including EE – manuals and guides produced in 1999. The “Network for Professional Teaching and Environmental Action (REPIE)” launched “Network of Green Schools (REV)” includes youth clubs in 22 schools Environmental Education course set up for teachers and students of universities. Foundation of Private Schools in Haiti (FONEPH) produced manual with cassettes on EE Training courses in environmental journalism provided on an occasional basis.	Gov’t	*	*		*		*	Jan Voordouw PANOS jvoordouw@aol.com panos@mediacom-ht.com
Environment Themes integrated in agricultural extension activities.						*		
Composting project in Cap Haitien (UCOMEX)					*			
(1999) Government “ Environment Action Plan ” describes 10 areas of priority action for 15 years. Environmental Education ranks high on the list.					*			
World of Youth runs a “health village” which promotes agroforestry.						*		
The Inter Press Service (IPS) feeds national and international information.		.					*	
Radio Phare has main objective of promoting environmental education								

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JAMAICA^c								
The Ministry of Education, Youth and Culture has ensured that environment and sustainable development issues have been integrated into the Grades 1-9 curriculum. For example, the theme for the Primary Curriculum Grades 1-3 is “All About Me and My Environment.” The MOEYC has signed a Memorandum of Understanding with the Natural Resources and Conservation Authority – now part of the National Environment and Planning Agency (NEPA) – to promote EESD in the schools and is a member of the National Environmental Education Committee (NEEC). EESD and environmental stewardship training are incorporated in the professional development programme targeting all members of the school community, including administrative, ancillary and academic staff.	Gov't	*		*	*			Wesley Barrett Ministry of Education, Youth and Culture Tel. 876-922-1400 to 9 edchief@cwjamaica.com
The National Environmental Education Committee (NEEC) developed a National Environmental Education for Sustainable Development Action Plan (NEEAPSD) through a nation-wide participatory process, using the resources and expertise of the committee members, the Environmental Action (ENACT) Programme and community representatives. The Plan is a national framework for incorporating Environmental Education for Sustainable Development (EESD) into all aspects of Jamaican life and includes targets and strategies in the areas of: Teacher professional development, curriculum development and implementation, national public awareness, community learning, and resources & practices. It was tabled in Parliament and launched in 1998. The NEEC has been supported by the ENACT Programme in implementing the NEEAPSD as outlined below.	Gov't			*				Franklin McDonald National Environmental Planning Agency (NEPA) Tel. 876-754-7526 fmcdonald@igc.apc.org Gina Sanguinetti National Environmental Education Committee (NEEC) Secretariat NEPA Tel. 876-754-7562 gsanguin@mail.infochan.com
The “ Lifeline ” Environmental Education Kit was developed by the NEEC to	Gov't		*		*			Gina Sanguinetti

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promote sustainable development in Jamaica and has been used to help teachers and facilitators in schools and communities promote sustainable development.								NEEC Secretariat, NEPA Tel. 876-754-7562 gsanguin@mail.infochan.com
The Environmental Action (ENACT) Programme promotes sustainable development by supporting the capacity development of key organizations involved in the decision-making, management and use of natural resources. The ENACT Programme has projects in five areas: - Environmental Management in the Public Sector - Strengthening the National Environment and Planning Agency (NEPA) - Local Sustainable Development Planning - Environmental Education for Sustainable Development - Environmental Management Systems in the Private Sector In the past 4 years, over 200 workshops and training events have been held – approximately 7,000 people from public agencies, private firms, communities, NGOs, and educational institutions participated in training initiatives. ENACT provided funding for personnel and programmes implemented by the NEEC Secretariat and committee members.	Bi-lateral prog.	*	*	*	*	*	*	Jean-Joseph Bellamy ENACT Programme Tel.876-754-7555 jbellamy@mail.infochan.com
The Sustainable Teacher Environmental Education Project (STEEP), implemented through the Joint Board of Teacher Education, is assisting teachers colleges to promote environmental education for sustainable development (EESD) into all aspects of their operations. Each pilot college is focusing on environmental stewardship guiding them towards energy, water and materials conservation, waste management, grounds maintenance and disaster preparedness. Curricula are being reviewed and courses, units and lesson plans developed. These colleges will set the guidelines for others to follow in the future. The project is supported by the ENACT Programme and the NEEC.	Gov't / Academia	*		*	*	*	*	Marceline Collins-Figueroa UWI School of Education Tel. 876-927-2502 mcolfig@yahoo.com

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The National Environmental Communications Campaign , spearheaded by the NEEC, was developed and is being implemented by a partnership of public and private organisations. The campaign which encourages Jamaicans to “Create an Environment for Clean Living” provides an umbrella for all organizations delivering environmental messages. To reinforce this message, a set of six posters with images and slogans supporting positive action towards the environment was distributed to all schools across the island, libraries, government ministries/agencies, NGOs, CBOs, private sector firms, community centers, teacher colleges, and other tertiary institutions and are being used to teach about sustainable development issues.	Gov’t		*				*	Gina Sanguinetti National Environmental Education Committee (NEEC) Secretariat NEPA Tel. 876-754-7562 gsanguin@mail.infochan.com
The National Environment and Planning Agency raises environmental awareness among the general public by: – Responding to requests from communities and schools for environmental exhibits and fairs – Media programmes, including interviews on environmental issues – Doing training for the private sector, e.g. Tourist Board – Packaging technical information for the public – Promoting policies and plans e.g. Environmental Management Strategy – Producing brochures, pamphlets and posters, and audio-visual materials e.g. “The Caribbean Ozone Song”, done in collaboration with Trinidad. – Promoting national and international environmental days New initiatives include: developing a library outreach corner; developing a “Faith and the Environment” programme; and a radio drama to be done in patois on relevant local environmental issues.			*	*	*		*	Rosemarie Chung National Environmental Planning Agency (NEPA) Tel. 876-754-7575 rchung@nepa.gov.jm
The Schools Environment Programme (SEP) is an Environmental Education Programme in Jamaica implemented in over 300 schools (25% of total schools in the island). SEP is a joint project between the Jamaica Environment Trust	NGO		*		*		*	Carlette Falloon Jamaica Environment Trust Tel. 876-960-3693

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(JET) the Jamaica Conservation and Development Trust (JCDDT), NGO partners and the Jamaica 4H Club Organization. The programme promotes environmental awareness and action in students and teachers and encourages the development of environmentally friendly schools and communities in Jamaica. The Schools Environment Programme conducts training workshops for teachers in the delivery of specific environmental education topics. Schools in the programme must carry out activities in four main categories: Managing Garbage; Greening of School Grounds; Starting/Strengthening an Environmental Club; and Environmental Research. A Teacher's manual outlines a range of possible activities which can be undertaken by schools in each area, and provides background material to guide many activities. Work has now begun to link the manual to the Ministry of Education's curriculum.								jet@infochan.com Donna Fray Jamaica Conservation and Development Trust Tel. 876-920-8278 or 9 jcdt@kasnet.com
The Negril Area Environmental Protection Trust (NEPT) is an umbrella organization that serves the Negril Environmental Protection Area (EPA) in order to achieve a better quality of life by preserving, conserving, protecting and restoring the environment through planning, coordinating and implementing environmental activities that serve as examples for others to follow. NEPT has five programme areas, one of which is environmental education which is closely linked with the community development programme as part of the education strategy to establish working examples of sustainable livelihood practices with community based partners, in order to raise awareness and provide training with respect to alternative development. Organic Farming Projects implemented by NEPT with funding from USAID/GOJ Coastal Water Quality Improvement Project (CWIP) provided both field and class-room training in organic farming practices to local farmers.	NGO		*		*	*	*	Negril Area Environment Protection Trust (NEPT) Tel. 876-957-3736 nept@infochan.com

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Youth from six different communities have been trained in drama and video animation techniques. EESD workshops for community leaders from seven CBOs and for teachers using the Lifeline Kit have been held.								
The Negril Coral Reef Preservation Society initiated an Junior Ranger Programme that trains students to be caretakers of the environment in their communities. All the schools in the Negril Watershed participate in this programme and teachers attend regular workshops. An EE training manual, developed for use in the programme, is being used in other communities.	NGO		*		*	*	*	Carl Hanson Negril Coral Reef Preservation Society (NCRPS) Tel. 876 – 957-3735
The National Environment Societies Trust (NEST) and one of its members, the Jamaica Conservation & Development Trust (JCDT) have pooled resources to develop an environmental resource center. The book and audio visual collections of both organizations will be housed in the center which will link into the Documentation Centre of the National Environment and Planning Agency.	NGO		*				*	National Environmental Societies Trust (NEST) NEST: 876-929-3597 or 8 JCDT: 876-920-8278 or 9
The St. Ann Environment Protection Association (STAEPA) completed the first two phases of the Environmental Education for Improved Coastal Water Quality in the Ocho Rios Area project in December 2000 for the Coastal Water Quality Improvement Programme (CWIP). A comprehensive environmental education manual for communities, hands on kits and other resource material were produced and training conducted. STAEPA has worked with the Jamaica Environment Trust (JET) and the Negril Coral Reef Preservation Society (NCRPS) to complete the production and replication of three slide show kits (focusing on management of natural resources) for distribution to NGOs across the island. STAEPA recently developed the Seven Oaks Sanctuary for Wild Life which will serve as a teaching tool for appreciation of our natural resources.	NGO		*		*		*	Wendy Lee St. Ann Environmental Protection Association (STAEPA) Tel. 876-973-4305 wendylee@cwjamaica.com
Green Expo is a biennial environmental exposition, started in 1996, put on by the Jamaica Conservation & Development Trust (JCDT) . Environmental issues, information and technologies are presented to a wide cross-section of the	NGO		*			*	*	Donna Fray Jamaica Conservation & Development Trust (JCDT)

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society. At the same time Green Expo serves as a medium through which thousands of people become informed on businesses' environmentally-friendly practices. Ultimately, Green Expo aims at stimulating public support for environmental conservation and environment-friendly technology.								Tel. 876-920-8278 or 9 jcdt@kasnet.com
The Portland Environment Protection Association (PEPA) seeks to protect the environmental of the parish of Portland, mainly through environmental monitoring and the environmental education of youth and adults. PEP Clubs – school-based “Portland Environmental Protectors” – are in primary and secondary schools throughout the parish. PEPA runs environmental quizzes and competitions throughout the year. PEPA developed a Jamaican environmental board game, “ENVIROTREK” and uses it as a learning tool with students and community members.			*			*	*	Harvey Webb Portland Environment Protection Association (PEPA) Tel. 876-993-9632 ttpepa@cwjamaica.com
The GOJ/USAID Ridge to Reef Watershed Project , implemented by the National Environment and Planning Agency focuses on activities to improve the management of Jamaica's watersheds. Public awareness activities include watershed signs, community workshops, watershed tours for decision-makers; conducted training in basic video production skills, and is starting an anti-litter “Clean Car Campaign.”			*		*	*	*	Maria Protz Ridge to Reef Project Tel. 876-754-3911 protz@mail.infochan.com Thera Edwards National Environment and Planning Agency (NEPA) Tel. 876-754-7586 tedwards@nepa.gov.jm
The Forestry Department and the CIDA Trees for Tomorrow Project have a variety of environmental education initiatives, including: - Production of a play, “Magic Trees” performed for students and community members - Creation of a video, “You are Tree” for use with younger children - Development of a draft Forestry EE manual linked to the Ministry of			*			*	*	Maxine Hinds Forestry Department Tel. 876-931-2631

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Education's curriculum - Workshops on Forestry and Watershed issues in schools and communities								
MARTINIQUE								
The Observatoire has developed a Coral Reef Management Action Plan which includes: - Improving knowledge about the reef system - Development of a centralized database system to catalogue what is underwater - Development of posters for diving clubs - Education of new recruits to assist with the work Development of an education strategy for the marine environment is underway and a specialist will work on it beginning 2002.	NGO					*	*	Sophie Brugneaux COREMA-Observatoire du Milieu Marin 7 Avenue Condorcet 97200 Fort de France tele/fax: 0596 39 42 16 ommm@wanadoo.fr
MONTSERRAT								
The Montserrat National Trust continues to be an advocate for Environmental education and runs environmental education schemes, including school and village competitions, radio programmes and campaigns about waste disposal and the preservation of the habitat of the Montserrat Oriole (<i>Icterus oberi</i>)	NGO		*				*	Montserrat National Trust (Information taken from website) www.montserrat-natltrust.com/natural%20history%20centre
PUERTO RICO								
“Hello Tourist” is a school curriculum project at 6th grade level designed to give students an in-depth tourism experience. (Caribbean Tourism is sustained by Natural Resources – beaches etc.) The programme is now web-based and can be accessed by teaches and students. – Running successfully in Puerto Rico, Antigua, Anguilla, St. Lucia, Tobago and Curacao	Private Sector		*				*	Kelly Robinson Caribbean Hotels Association krobinson@chaotels.com www.hellotourist.org

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The University of Puerto Rico Sea Grant Programme has a marine education component that offers lectures, guided field trips and produces educational materials on marine resources conservation.	Acade-mic	*				*		Dr. Alida Ortiz Al_Ortiz@cuhae.upr.clu.edu
The Metropolitan University has an Environmental Education Institute that offers workshops for teachers in different aspects such as water and soil use and conservation. The Inter-American University also has a similar programme	Acade-mic	*			*		*	
The Puerto Rico Department. of National Resources has an information and education office which produces educational materials in the form of brochures and leaflets. Teachers may request and use them in their classes	Gov't	.	*				*	
ST. KITTS & NEVIS								
As a result of the passage of an environmental act in June of 1987, the federation has developed conscientious initiatives to address Environmental Management issues. The act entitled the “ National Conservation and Environmental Protection Act ” (NCEPA) created the Department of Environment which has responsibility for Environmental Management in the Federation. Environmental Education is treated as an area of priority concern by the Department of Environment . Since its establishment in 1995 as a result of the amendment of the NCEPA, the Department of Environment has employed initiatives to ensure that the promotion of environmental education. In 1995 former Chief Education Officer, Dr. Joseph Halliday developed an Environmental Education Curriculum for Secondary in the Federation of St. Kitts and Nevis. The curriculum funded by the Organisation of America States (OAS) has been designed to be infused into the existing Secondary Education Curriculum. The Department of Environment has employed an Environmental Education	Gov't	*		*			*	Brian Farrell Department of Environment Tel. 869-465-4040 sknmtcce@caribsurf.com

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Officer who has been charged to with updating the curriculum and developing an Environmental Education outlook for the Federation. However, all officials in the Department of Environment has the assumed responsibility of imparting general Environmental Education information to the general public and all schools. In 1995, an Environmental Education curriculum for Secondary Schools was designed for infusion into the existing secondary education curriculum, - Geography, Social Studies, Biology and Chemistry. The strategy has shown limited success due to lack of training in environment and the already burdensome workload of teachers. The Curriculum is still being used by the secondary schools, but the teachers have expressed a desire for its evaluation and updating. Environmental newsletter distributed to schools, libraries, media houses and public offices. Environmental education brochures in celebration of all major environmental holidays. Video documentaries on national TV, panel discussions, quizzes and art competition. Public radio also form part of the overall public awareness strategy of the Dept. of Environment A 15 minute weekly radio program – “Awareness to Action” is hosted by the staff of the department of environment. All officials in the Environmental Department have responsibility of imparting general environmental education information to the general public and all schools.								
ST. LUCIA								
St Lucia has successfully implemented the Learning for Environmental Action Project (LEAP) Programme <u>LEAP</u> – organized around 4 basic levels of competency in EE.	Gov't	*			*		*	Anita James Forestry Department Sustainable Development &

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Level 1: Ecological foundation Level 2: Issues Level 3: Investigation & evaluation Level 4: Action There is a drive to integrate EE in school curriculum. Meanwhile, LEAP has been infused into the Ministry of Education's Social Studies Syllabus for Forms 1-3. There has been the formation of Teachers' Environmental Action Groups Plant kit for EE, video, publications, slide presentations, special events activities, and media presentations have been developed under the LEAP Programme 90 teachers from all school levels have been trained in the LEAP methodology. There has been production of LEAP booklets comprising teachers' manual and kits.								Environment Unit Ministry of Environment anitavj@hotmail.com
Publication and distribution of NEXUS – a quarterly newsletter of the Sustainable Development and Environment Unit. It covers all their programme areas (Ozone depletion/protection, Climate Change, Energy, etc.)and is distributed in print form and electronically. World Environment Day observations – Distribution of brochures, Radio environmental quiz, Talk shows, Press Releases, newspaper supplements etc. Ozone Protection – Training of Customs Officers in the monitoring of trade in Ozone depleting substances	Gov't							Crispin d'Auvergne Sustainable Development & Environment Unit of the Ministry of Planning, Development Environment & Housing crispin-sde@candw.lc
The St. Lucia National Trust has outline three general objectives for its education Department. They are: - To create a more enabling environment for natural and cultural heritage education within the organization and the island; - To transform the behaviour, develop a stewardship ethic and nurture	NGO	.	*				*	Giles Romulus St. Lucia National Trust Tel. 758-452-6057 758-452-5005 natrust@candw.lc

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national pride among students at the primary, secondary and tertiary levels in St. Lucia; - To develop an informed and action oriented citizenry on the natural and cultural heritage of St. Lucia. Initiatives taken towards EE by the Trust include: Publications such as “St. Lucia , the Brave”, and “A Bird Watchers Guide to Pigeon Island”. Articles submitted to various newspapers on whaling etc.								
ST. VINCENT & THE GRENADINES								
Development of the ‘ Integrated Forest Management and Development Project ’, of which a major component is going to be education.	Gov’t		*				*	L. FitzGerald Providence Forestry Department Tel 784-457-8594 forestrysvg@vincysurf.com fitzgp@caribsurf.com
SURINAME								
Development of strategy for Environmental Education being pursued. Conservation International Suriname (CIS) plays the role of facilitator, catalyst, and fundraiser but not implementer. The Ministry of Education actively supports the initiatives and the Minister of Education attends the workshops.	NGO			*				Edith McClintock emcclintock@www.fsuriname.net
TRINIDAD & TOBAGO								
The National Environmental Policy – (1998) contains the Government’s policy on Environmental Education . It states: Environmental Education will be introduced from primary school age to adulthood with the goal of providing knowledge of both local and global environmental issues as well as the skills required to take the individual from awareness to participation;	Gov’t	*	*	*	*		*	Heema Seeramsingh Environment Management Agency 868-662-804 868-662-8044 hseeramsingh@ema.co.tt

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- Environment and sustainable development concepts will be introduced into all education programmes. - Cross-disciplinary university courses in fields which have an impact on the environment will be encouraged as well as postgraduate research - Adult education and awareness programmes based on local environmental problems will be encouraged Environmental education initiatives throughout the country will be coordinated at the national level. Infusion of environmental education into primary and secondary level curricula is a reality. The Ministry of Education took the decision not to have environmental education as a separate subject at forms 1-3 because the syllabus was already overloaded.								Nicole Leotaud World Summit on Sustainable Development – National Assessment Report – Trinidad & Tobago nleotaud@hotmail.com
The Asa Wright Nature Centre & Lodge focuses its efforts in the areas of Ecotourism — The Centre has sponsored special environmental education research projects, nature guides wildlife publications, and a number of cooperative programs with the Port-of-Spain campus of the U.W.I. An Environmental Education Officer has been hired and is now actively engaged in a wide array of initiatives reaching out to schoolchildren and teachers throughout Trinidad's Arima Valley	NGO	.	*		*	*	*	
Environment Tobago's Education Committee has developed a strategic plan to guide the development and implementation of the environmental education programme. The plan identifies students, teachers, ET members, local communities, the general public and technical agencies as the primary target groups and focuses on the issues of biodiversity degradation and pollution. Several projects identified are currently underway.	Gov't	*	*	*	*		*	
The Pointe-A-Pierre Wildfowl Trust initiated an environmental education audio-visual outreach programme in primary, secondary and senior comprehensive schools and community groups in 1979. The Trust provides in- and out-of-classroom programmes, action projects and field training and exposes	NGO		*		*		*	

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young people to the value of conservation-related careers. Educational films are also shown daily as part of the programme. The Trust also acts as an environmental education resource center for teachers, graduates and undergraduates of U.W.I., amateur naturalists, photographers and the general public.								
T&T Field Naturalists Club has conducted a number of studies on environmental problems including conservation of areas of the Caroni Swamp and the Aripo Savannas, conservation of endangered species and has made submissions to Government agencies and public bodies.	NGO						*	
The Trinidad & Tobago Solid Waste Management Company Ltd (SWMCOL) is an organization with expertise in environmental consultancy services and waste management. It is a wholly owned state enterprise and was established on November 12, 1980 with specific responsibility to manage the collection, handling, treatment and disposal of solid wastes in T&T either by direct supervision or through the provision of technical and managerial assistance to local authorities and other public and private sector institutions.	Gov't					*	*	
Environmental Management Authority's 'Hands-On' Environmental Education Programme , organized in collaboration with the Ministry of Education is designed to allow students at all levels in primary schools to be directly involved in projects on or about the environment. Students are required to identify, design, plan and execute an environmentally focused project which should involve positive action on the part of the students that would impact either on an existing environmental situation or negative attitudes about the environment	Gov't	*		*	*		*	
Nature Seekers was established in 1990 to assist in the protection of the endangered leatherback Turtles on the Matura Beach. These turtles were being slaughtered indiscriminately at an alarming rate of over 30% a night. Now because of the dedication and perseverance of the twenty full time volunteer members they were able to achieve:	NGO		*			*	*	Dennis Sammy Nature Seekers Tel/Fax 868-668-7337 natseek@tstt.net.tt

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- A reduction in slaughter from 30% to 0% per year - Accurate data regarding the numbers of Leatherback Turtles nesting at Matura Beach - Recognition by WIDECAST as one of the best Marine Turtle Conservation and Ecotourism projects in the region - The establishment of a Tour Guiding Programme to manage 200 visitors per night.								
TURKS & CAICOS								
The Center for Marine Resource Studies – projects assessing stock levels of lobster and conch have provided important information for the Fisheries Department. The Center for Marine Resource Studies has hosted or supported a number of public forums and activities to enable community members to come together to discuss communal problems. A current project testing the effectiveness of artificial lobster shelters in critical nursery and feeding grounds is showing early potential to significantly increase lobster yields. The Center for Marine Resource Studies – students offer environmental education programs and tutoring in the local schools and host an annual SEA DAY at the Center for local school children.- Students and staff members have participated in reviews of Environmental Impact Assessment reports on local resort developments	Acade-mic		*		*	*	*	The Center for Marine Resource Studies Turks and Caicos (Information taken from website) www.southcaicos.tc
US VIRGIN ISLANDS								
The Nature Conservancy has identified ecotourism as a sustainable conservation strategy for its protection work in the Virgin Islands. To date two	NGO		*		*	*	*	Robert Weary The Nature Conservancy

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tours are being developed as the starting point of a comprehensive program that will include community involvement and environmental education.		.						US VI Program Caribbean Division Tel 340-773-5575 Fax 340-773-1613 rweary@tnc.org
In the high schools there is a marine biology programme. Elementary school teachers 'do their own thing' but EE is not integrated in the school curricula.	Acade-mic	*						Laverne Ragster University of the Virgin Islands Tel.340-693 1201 lrage@uvi.edu
The St. John Environmental Association works with the youth through eco-camps where they are taught about the environment and how they can protect it	NGO	.	*				*	
In collaboration with the Local & Federal Governments, the University of Virgin Islands is implementing a “Non-Point Source Pollution Programme” which amongst other issues deals with construction and waste disposal. (Solid Waste Management issues affect quality of water and reefs and Tourism is major economic source) Newsletter on Non- Point source pollution issues developed for local communities and professionals The University and the Local and Federal Governments (Department of Planning and National Resource) are also jointly developing a Marine Parks Management Plan for the territory. The University has Environmental Education activities for students. These are funded by a Grant from the US Government. There is also an annual conference that addresses Solid Waste management issues and pollution issues. The University is also training some elementary school teachers but there is no special focus. The government has just begun to look at the curriculum with a view to incorporating EE into it.	Acade-mic		*		*	*	*	Laverne Ragster University of the Virgin Islands Tel.(340) 693 1201 lrage@uvi.edu

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CARIBBEAN CONSERVATION ASSOCIATION								
The CCA focuses on conservation, protection and wise use of the region's natural and cultural resources. CCA works through a small secretariat throughout the wider Caribbean acting as a platform for: - Information exchange - Environmental education - Capacity building - Policy development. CCA currently has 3 program areas of focus: - Marine & Coastal Resources - Protected Areas - Multi-lateral Environmental Agreements. The Caribbean Regional Environmental Programme (CREP) has "Public education and awareness on environment as one of its main activities. It will assess: Current awareness levels of key target groups, namely planners, educators and tour operators; Educational and awareness creating activities of governments and other organizations as well as projects in the member countries; Additional needs of public educational and awareness programmes; Support identified structures on the basis of needs assessment conducted; Execute and evaluate programmes. The Coastal Resources Co-Management Project (CORECOMP) is a 3-year project within the Coastal & Marine Management Program (CaMMP) of the CCA	NGO		*			*	*	Dr. Joth Singh Caribbean Conservation Association cca@caribsurf.com Tel. 246-426-5373 (Information taken from website) www.caribbeanconservation.org/projects/crep/index.html

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CPACC								
The Caribbean Planning for Adaptation to Global Climate Change's (CPACC) overall objective is to support Caribbean Countries in preparing to cope with the adverse effects of global climate change (GCC), particularly sea level rise, in coastal and marine areas through vulnerability assessment, adaptation planning, and capacity building linked to adaptation planning. More specifically the project will assist national governments and the University of the West Indies Centre for Environment and Development (UWICED) to (i) strengthen the regional capacity for monitoring and analyzing climate and sea level dynamics and trends, seeking to determine the immediate and potential impacts of GCC, (ii) identify areas particularly vulnerable to the adverse effects of climate change and sea level rise, (iii) develop an integrated management and planning framework for cost-effective response and adaptation to the impacts of GCC on coastal and marine areas, (iv) enhance regional and national capabilities for preparing for the advent of GCC through institutional strengthening and human resource development, and (v) identify and assess policy options and instruments that may help initiate the implementation of a long term program of adaptation to GCC in vulnerable coastal areas	Development/ Academic		*		*	*	*	CPACC Regional project Implementation Unit Tel. 246-427-4580 Fax 246-417-0461 cpacc@sunbeach.net www.cpacc.org
UNESCO								
UNESCO has launched a Caribbean Regional Education Management Information System (CREMIS) Project . The primary objective of the project is to link 23 countries of the Caribbean in a technology networked system such that information/data can be shared at school, district, national and sub-regional levels. The system is further expected to facilitate: - Secured communication across levels of personnel in the related organizations; - Teleconferencing and exchange of data/information on line;	International NGO		*					Helene-Marie Gosselin UNESCO – 876-929-7087-9 h.gosselin@unesco.org

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- The development of an online regional electronic resource center; - Use of multimedia technology in the production and delivery of education and training programs; - The establishment of international links through the use of a web-based facility								
UNEP								
The United Nations Environment Programme (Caribbean Environment Programme) includes Education, Training and Awareness (ETA) . The objectives of the ETA Programme are the following: - To transform and improve educational systems for the integration of a consistent and positive behaviour towards the environment, and in particular, an understanding of the value and relevance of marine and coastal resources. - To strengthen training programmes at the national and regional levels, aiming at the improvement of technical and managerial skills of decision makers responsible for the management of marine and coastal resources. - To support the public awareness efforts of the media, community – based and non-governmental organizations geared towards the economic sectors and the general public for a better understanding of and a positive interaction with marine and coastal resources. The Caribbean Environment Programme (CEP) recently collaborated with the National Environmental Education Committee (NEEC) of Jamaica which hosted a regional workshop supported by the CIDA/Government of Jamaica, ENACT Programme and the IUCN Commission on Education and Communication. CEP Publications: - 1994 CEP Technical report # 30 – WECAN: Youth teach Youth. Environmental Science handbook for Environmental Education and	International NGO		*		*		*	Tim Kasten United Nations Environment Programme – Caribbean Regional Co-ordinating Unit Caribbean Environment Programme Tel 876-922-9267 uneprcuja@cwjamaica.com www.cep.unep.org

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Awareness in Schools Case Study – Jack’s Hill all-Age School. - 1993 CEP Technical report # 28 – Can Television tell The Environmental Story? – Report of the seminar “Visual Media and the Environment”.								

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For more information:

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