



# AMEP QUARTERLY

ASSESSMENT & MANAGEMENT OF ENVIRONMENTAL POLLUTION

April – June 2013

Issue 18<sup>1</sup>

*Welcome readers,*

*This eighteenth quarterly provides highlights of projects and activities implemented by the AMEP sub-programme for the following thematic areas:*

- [Programme Coordination](#)
- [GEF Projects](#)
- [Environmental Monitoring and Assessment](#)
- [Wastewater Management](#)
- [Waste Management](#)
- [National Programmes of Action](#)
- [Oil Spills Response Planning, and](#)
- [Climate Change and Disaster Management](#)

*It also includes Focal Point Corner with information for national and technical focal points of the Cartagena Convention and its Protocols.*

## Background

*The Caribbean Environment Programme (CEP) is one of UNEP’s Regional Seas Programmes. CEP is managed by and for the countries of the Wider Caribbean Region (WCR) through the Caribbean Action Plan of 1981. This plan of action led to the 1983 adoption of the Cartagena Convention for the Protection and Development of the Marine Environment of the Wider Caribbean Region. This year marks 30 years since the adoption of this important treaty.*

*The Cartagena Convention is supplemented by three protocols addressing specific environmental issues namely oil spills (Oil Spills Protocol), biodiversity (Specially Protected Areas and Wildlife/SPAW Protocol) and pollution (Land Based Sources of Marine Pollution/LBS Protocol).*

*The AMEP sub-programme provides regional co-ordination for the implementation of the LBS and Oil Spills Protocols. Additional technical support for the implementation of LBS Protocol is provided by Regional Activity Centers in Cuba (CIMAB) and Trinidad and Tobago (IMA and in Curacao (REMPEITC) for the Oil Spills Protocol.*

The following countries are encouraged to continue efforts to ratify the LBS Protocol



Barbados



Colombia



Costa Rica



Cuba



Dominica



Dominican Republic



Guatemala



Haiti



Honduras



Jamaica



Mexico



Netherlands



Nicaragua



St. Kitts and Nevis



St. Vincent and the Grenadines



Suriname



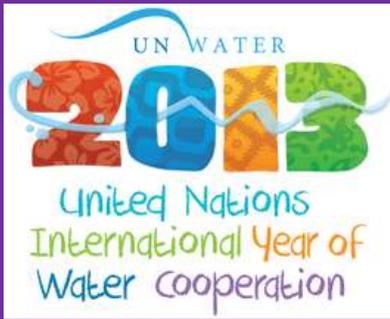
United Kingdom



Venezuela

1. The photos above are the winning collages from the 2011 LBS Pollution competition from left to right, Anguilla (first place), Jamaica (second place), Barbados (third place) and Guadeloupe (fourth place).

AMEP Quarterly  
April – June 2013



Please view our Interactive Project Activity Map on our website at [www.cep.unep.org](http://www.cep.unep.org)



Thumbnail view of the Interactive Project Activity Map



### World Environment Day 2013- Waste to Energy Project Launch



Dr. Margaret Jones Williams, Programme Advisor of Environment and Energy Unit at UNDP, making a presentation at the launch

## Programme Coordination

The AMEP sub-programme said farewell to Alberto Corti, from Uppsala University in Sweden, who successfully completed his internship in April 2013. AMEP welcomed the arrival of three new interns in May 2013, Ms. Lacey Dannenberg, Mr. Jeffrey Meek and Ms. Katelyn Busse from Indiana University in the United States of America. They will be working for three months to support ongoing AMEP projects and activities.

### International Day of Biodiversity-May 22nd

This year's theme is Water and Biodiversity and in recognition of this theme, photos and information about the effects of land based pollution on marine biodiversity were posted on CEP's Facebook and Twitter pages during CEP's weeklong social media campaign.

A "Did You Know?" poster highlighting the importance of marine biodiversity and the risks posed by human activities was also created. The poster can be downloaded from the CEP Website at <http://www.cep.unep.org/did-you-know/view>.

### World Environment Day – June 5<sup>th</sup>

This year's theme is "Think. Eat. Save. Reduce your Foodprint", which brings into focus the issue of global food waste. In celebration of this important day, representatives from the AMEP and CETA sub-programmes highlighted the work of CEP at the launch of the "Waste to Energy for Fuel Project for Energy Diversification, Transportation, Education and Climate Change Mitigation Project" organized by the Youth Crime Watch of Jamaica/Departments of Physics and Chemistry, in the Faculty of Science and Technology at the University of the West Indies, Mona, Jamaica.

This project aims to introduce the process of conversion of waste vegetable oil to fuel, to at-risk youth in marginalized communities and some schools with the hope that it will promote environmental stewardship and alternative livelihood opportunities.

### World Oceans Day – June 8<sup>th</sup>

The theme for World Oceans Day is "Together we have the power to protect the ocean". In recognition of this important day, AMEP with the support of the CETA sub-programme engaged in a social media campaign where messages about preserving the Caribbean Sea and the value that oceans provide to humanity were promoted on CEP's social media pages.

A press release celebrating World Environment and World Oceans Days was also distributed to local and regional media.

See press release at:<http://www.cep.unep.org/press/press-clips/unep-cep-celebrates-world-environment-oceans-days>

## Yallahs Agricultural Expo 2013



Ms. Katelyn Busse (left), Ms. Nicolette Jones (right) ( UNEP CEP interns ) and Ms. Shanoy Coombs(centre) Food and Agriculture Organization, Communication Consultant

## GEF IWLEARN Workshop in Argentina



Workshop participants

### **Yallahs 2013 Agricultural Expo “Water at Last”**

On Thursday, June 13, 2013, the AMEP and CETA interns, Ms. Katelyn Busse and Ms. Nicolette Jones represented their sub programmes at the Yallahs 2013 Agricultural Expo in St. Thomas, Jamaica themed “Water Here At Last”. At this expo, they raised awareness about the importance of water, its conservation and rainwater harvesting. The work of UNEP CEP within the region was promoted, especially as it relates to watershed management and improving water quality. For more information about rainwater harvesting generated from our recently concluded GEF IWCAM project, please see <http://iwcam.org/>

## *GEF Projects*

### **Caribbean Large Marine Ecosystem Project (GEF CLME)**

The CLME project is a full sized GEF project entitled “Sustainable Management of the Shared Living Marine Resources of the Caribbean Large Marine Ecosystem (CLME) and Adjacent Regions.

The project began with a Transboundary Diagnostic Analysis (TDA) which identified three priority transboundary problems that affect the CLME and Adjacent regions namely: unsustainable exploitation of fishing and other marine living resources, habitat degradation and community modification, and pollution.

Eighteen (18) countries from the Wider Caribbean Region have now endorsed the CLME’s ten (10) year Strategic Action Programme (SAP). The AMEP and SPAW sub-programmes continue to explore possible joint activities in keeping with the CLME SAP. The project is expected to be completed by the end of 2013 and a follow up proposal is now under preparation.

For further information on this project, please visit this website, [www.clmeproject.org](http://www.clmeproject.org).

### **International Waters: Learning Exchange and Resource Network (GEF IW:LEARN)**

The GEF IW: LEARN Project in collaboration with UNESCO and UNEP CEP organized a series of workshops held in Buenos Aires from June 11-14, 2013. These workshops included the UNESCO Inter- LME Information and Data Management Group Workshop, the UNESCO Groundwater Integration Dialogue and the GEF IW: LEARN 2nd Latin America and Caribbean (LAC) Regional Targeted Workshop for GEF IW Projects on Catalyzing Sustained Governance. Reports from these workshops will be made available on the CEP and IW: LEARN websites- [www.cep.unep.org](http://www.cep.unep.org) and <http://iwllearn.net>.

The 2<sup>nd</sup> LAC Regional Targeted Workshop was attended by thirty five participants, from sixteen GEF IW Projects and partners from Latin America and the Caribbean. It promoted the building of institutional capacity and individual capabilities in aspects of transboundary and integrated water resource management.

**AMEP Quarterly  
April - June 2013**



Participants of GEF IW LEARN Session during break out session

These workshops allowed project managers and partners to share experiences and lessons learned from their individual projects. Some of the key areas discussed were: groundwater and surface water management in the Latin American and Caribbean region, governance structures, and data sharing and information management among GEF IW projects. Mr. Christopher Corbin, Ms. Pietra Brown and Ms. Chrishane Williams from the AMEP and CETA sub-programmes participated in these workshops.

**Caribbean Regional Fund on Wastewater Management- GEF CReW**

The GEF CReW Project is a USD 270 million project implemented by IDB ((Inter-American Development Bank) and UNEP. UNEP CEP is the regional executing agency for two of the project's components, dealing with policy reform and communications. Participating countries are: Antigua & Barbuda, Barbados, Belize, Costa Rica, Guatemala, Guyana, Honduras, Jamaica, Panama, St. Lucia. , St. Vincent & the Grenadines, Suriname and, Trinidad & Tobago.

The IDB Sector Week- Water and Sanitation Division workshop was attended by all the members of the Project Coordinating Group of the GEF CReW project. This training workshop was held from April 15-18, in Nassau, Bahamas. The main objective was to exchange experiences among participants about issues critical for the provision of sustainable and efficient water and sanitation services and to introduce practical tools for tackling the main issues. Topics included the re-use of wastewater technologies, business, institutions and integrality in the water and sanitation sector.

For more information, please visit [www.gefcrow.org](http://www.gefcrow.org).

The GEF CReW project with the support of UNEP CEP hosted a Regional Facilitator Training Workshop in Kingston, Jamaica from May 19-24, 2013. The objective of the workshop was to build regional capacity of mid-level professionals from the project's thirteen participating countries. Three representatives from each country received training in facilitation techniques so that they can work with each other in a more collaborative way to aid in the execution and success of the project in their respective countries. The staff of the Project Coordinating Group of the GEF CReW Project and several staff members from UNEP CEP also benefitted from this training.

An important outcome of the workshop was the creation of an online Community of Practice using the Yammer platform. Through this platform, these project representatives will share ideas, experiences and lessons learnt and also seek support and guidance as they works towards successful execution of the project.

Agreements have been finalized with the Governments of Antigua and Barbuda and Saint Lucia to provide capacity building support under the project. Similar agreements are currently being developed under the CReW Project for other participating countries.

**CReW Regional Facilitator  
Training Workshop 2013**



Participants of the Facilitation Training share experiences during a break out session.



Other CReW news:

- Operational Assessments were completed in Antigua and Barbados
- Workshop for Wastewater Operators was held in Antigua and Barbuda
- A study on the LBS Protocol was initiated with support of LBS RAC CIMAB in Honduras, Costa Rica, Guatemala and Panama.
- Report of LBS Protocol Ratification in selected CReW countries completed.
- Facebook page of CReW launched:  
<https://www.facebook.com/pages/GEF-CReW>  
Project/304499529676508?ref=ts&fref=ts

For further information on the CReW project and to read its newsletters, visit <http://www.gefcrew.org/component/acymailing/archive/view/mailid-16>

**Integrating Watersheds and Coastal Area Management (GEF-IWCAM)**

All final reports and project closure will end by July 2013. The terminal report of the project will be made available on the CEP website shortly.

For further information on the GEF-IWCAM project, please visit <http://iwcam.org/>

**Reducing Pesticide Run-Off from the Caribbean Sea (GEF-REPCar)**

The GEF-REPCar project is now closed. For further information on this project and to download the final reports, visit <http://www.cep.unep.org/repcar>

**Integrating Water, Land and Ecosystems Management in Caribbean SIDS (GEF-IWEco)**

The GEF IWECO is a full sized project proposal for USD\$20,448,598.00, currently being prepared in collaboration with the Caribbean Environmental Health Institute (CEHI) for submission to the GEF Secretariat in the last quarter of 2013. Additional support will be provided by Caribbean Regional Public Health Agency (CARPHA) (which CEHI as a regional health institute is now a part of) to participating countries to develop national project proposals. These participating countries are: Antigua & Barbuda, Barbados, Cuba, Dominican Republic, Grenada, Jamaica, St. Kitts & Nevis, St. Lucia, St. Vincent & the Grenadines, Trinidad & Tobago.

GEF-IWEco will build on the successful experiences of the GEF-IWCAM project with the main objective being “*the implementation of an integrated approach to water, land and ecosystems services management, supported by policy, institutional and legislative reforms, and implementation of effective appropriate technologies to accelerate contribution to global targets on access to safe and reliable water supplies and improved sanitation, and contributing to improved ecosystem functioning in the Caribbean*”. Project implementation, subject to formal approval by the GEF Secretariat, is expected to begin in 2014.

For more information on the GEF IWECO Project please visit: [http://www.carrcu.org/images/meeting\\_docs/img15/igm15/information\\_documents/UNEP\\_DEPI\\_CAR\\_WG.33INF.10/UNEP\\_DEPI\\_CAR\\_WG.33INF.10\\_EN.pdf](http://www.carrcu.org/images/meeting_docs/img15/igm15/information_documents/UNEP_DEPI_CAR_WG.33INF.10/UNEP_DEPI_CAR_WG.33INF.10_EN.pdf)

AMEP Quarterly  
April- June 2013

36th Scientific Conference of  
the AMLC Meeting in Ocho  
Rios, Jamaica



SPAW Programme Officer, Mrs .Alessandra Vanzella- Khouri, (left) and other experts during a panel discussion.

## ***Environmental Monitoring & Assessment***

A teleconference of the Working Group on Environmental Monitoring and Assessment took place in June 2013. The purpose of the meeting was to review and discuss areas of focus for the working group for the next two years.

The key area of focus was the development of a survey to be distributed to Caribbean countries to collect information on their policies and practices in regards to data sharing and to discover what monitoring mechanisms they have in place.

### **36th Scientific Conference of the Association of Marine Laboratories Meeting (AMLC)**

The AMEP and SPAW Programme Officers, Mr. Christopher Corbin and Mrs. Alessandra Vanzella-Khouri, represented UNEP CAR-RCU at the AMLC Conference in Ocho Rios, Jamaica from June 17-21, 2013. The theme for this conference was “Managing for Sustainability and Resilience: Challenges for Coastal Zone Management in the Caribbean”.

This meeting comprised of a series of presentations covering different thematic areas related to the marine environment, which included oceanography and coastal processes, coral reef restoration and conservation policy and processes

The final session “The challenge of translating scientific knowledge into effective management practices” detailed all the gaps and limitations involved in the process of moving from theory to practice in scientific research and data sharing.

At this meeting the “Status and Trends of Caribbean Coral Reefs 1969-2012” report was distributed.

For more information on the AMLC, visit [www.amlc-carib.org](http://www.amlc-carib.org)

## ***Waste Management***

AMEP received financial support from UNEP GPA in June 2013 to update the Regional Action Plan on Marine Litter Management in the Wider Caribbean Region. This activity will be done in collaboration with the Caribbean Youth Environment Network (CYEN). For more details on the work of CYEN in the region, check out their web site at

[http://www.cyen.org/documents/cyen\\_organisation.html](http://www.cyen.org/documents/cyen_organisation.html) and Facebook pages at <https://www.facebook.com/CYENCaribbean>.

Financial Support was also received from UNEP GPA to further develop an interactive learning tool and game on Marine Litter for the CEP website. This marine litter game is nearing completion. The outline of the game now covers six regions of the Caribbean including Jamaica, Northern Caribbean, Mainland Caribbean, Southern Caribbean, Eastern Caribbean and Open Ocean. This will form part of the recently revamped Kids Page for UNEP CAR/RCU found at <http://www.carrcu.org/kids-corner>.

AMEP Quarterly  
April- June 2013



Mr. Nelson Andrade Colmenares making his opening remarks at the GPNM meeting in Trinidad and Tobago.



Mr. Anjan Datta, the Senior Programme Officer of the UNEP GPA making a presentation



Mr. Datta and Ms. Ramdial listening attentively to the presentations.

Mr. Nelson Andrade Colmenares, CEP Coordinator and Mr. Christopher Corbin, AMEP Programme Officer participated in UNEP's Global Partnership for Nutrients Management Meeting (GPNM), 7 – 9 May 2013 in Port of Spain, Trinidad & Tobago. This meeting marked the launch of the Caribbean Platform for Nutrients Management within the broader framework of the Global Partnership on Nutrients Management, for which UNEP GPA is the Secretariat.

Experts from twenty two countries, five partner projects and agencies were in attendance. Regional partners and agencies expressed full support for the development of a Caribbean Platform for Nutrients Management.

The Meeting was opened by Minister of State in the Ministry of Environment and Water Resources, for Trinidad and Tobago, Ms. Ramona Ramdial, who in her remarks, reported that the first organic farm would be opened in June in the twin island nation.

She emphasized that this farm represents a step in the right direction for Trinidad which historically uses weedicides and pesticides which have negative effects on the nation's people. On a similar note, Mr. Nelson Andrade Colmenares, in his opening remarks, indicated that the meeting was timely as nutrients from land based sources are a major source of pollution in the Wider Caribbean Region and it was time that stakeholders took action to reduce negative environmental impacts and minimize nutrient use (pesticides, herbicides, and weedicides) in food production.

Read more about this event at: <http://www.guardian.co.tt/news/2013-05-08/tt%E2%80%99s-first-organic-farm-opens-next-month> .

Mr. Corbin also served as a facilitator for the workshop and technical group discussions. This meeting report is under review and will be made available on the CEP website shortly.

The Spanish translation of the United States Environmental Protection Agency Introduction to the Clean water Act is now available at the Watershed Academy Website:[http://cfpub.epa.gov/watertrain/pdf/modules/Introduccion\\_a\\_la\\_Ley\\_de\\_Aqua\\_Limpia.pdf](http://cfpub.epa.gov/watertrain/pdf/modules/Introduccion_a_la_Ley_de_Aqua_Limpia.pdf).

For the English version, visit this link:

[http://cfpub.epa.gov/watertrain/moduleFrame.cfm?module\\_id=69&parent\\_object\\_id=2569&object\\_id=2569](http://cfpub.epa.gov/watertrain/moduleFrame.cfm?module_id=69&parent_object_id=2569&object_id=2569)

## *National Programmes of Action (NPAs)*

Projects supporting the development and implementation of NPAs in the Dominican Republic (*“Reaching out the National Programme of Action on Land Based Marine Pollution in the Dominican Republic”*), Suriname (*“Baseline Analysis of the Quality of Water in the Suriname River”*) and Saint Lucia (*“Mainstreaming Saint Lucia’s National Plan of Action through a North-West Coast Water Quality Demonstration Project”*) have been completed. Final reports are under preparation and will be available on the CEP website.

**EU/UNEP/PIOJ Climate  
Change Adaptation and  
Disaster Risk Reduction Project**



The coastal fishing community of Old Harbour, Jamaica.



Farmers gathering timber and fruit trees in the mountainous community of Constitution Hill, Jamaica



Ms. Lacey Dannenberg, AMEP intern, is seen here removing weeds in Constitution Hill, Jamaica

## *Oil Spills Response Planning*

RAC (Regional Activity Centre) REMPEITC (Regional Marine Pollution Emergency Information and Training Centre for the Wider Caribbean) participated in the Oil Pollution Preparedness Response & Cooperation (OPRC) technical group meeting and Marine Environment Protection Committee (MEPC) at the International Maritime Organization (IMO) headquarters in May 2013. The REMPEITC also participated in the MOBEX Oil Spill Seminar organized by Clean Caribbean & Americas (CCA) which takes place every three years in French Guiana. RAC-REMPEITC, in association with the IMO, also hosted a National Seminar on the Feasibility of the Liquefied Natural Gas Bunkering on the 26<sup>th</sup> of June, 2013 in Kingston, Jamaica.

## *Climate Change & Disaster Management*

The Climate Change Adaptation and Disaster Risk Reduction Project in Jamaica was originally scheduled to close in April 2013 but has now been extended to December 2013.

Recently, representatives from UNEP CEP participated in site visits to the farming community of Constitution Hill and the fishing village of Old Harbour as a part of the Project's efforts to monitor the progress of Alternative Livelihood projects, which were implemented in these locations. These projects aim to help communities develop more sustainable ways of earning an income. In some coastal communities artificial reefs are installed and mechanisms for stopping beach erosion i.e. (Shorelock technology) are being implemented.

On these site visits, interviews were conducted by Ms. Lacey Dannenberg, AMEP intern, with the aim to assess how familiar the community was with the term climate change; their individual contribution to greenhouse gas emissions, and document feedback on their observations of changes in weather patterns. These visits were organized by the Forestry Department and the National Environment and Planning Agency (NEPA) respectively.

## *Focal Point Corner*

### *Focal Points of the Caribbean Environment Programme (CEP)*

- ✚ Countries are encouraged to submit news items and/or updates for inclusion on the CEP website.
- ✚ The Secretariat is available to provide technical and financial support to countries interested in ratification of the LBS Protocol.
- ✚ Countries should submit any updates on contact details for their national and technical focal points .
- ✚ Keep updated on upcoming meetings and events by checking out the CEP online calendar at [http://carrcu.org/calendar/month\\_calendar/2013/07/-](http://carrcu.org/calendar/month_calendar/2013/07/)

Contact Information

UNEP CAR/RCU  
14-20 Port Royal Street  
Kingston  
JAMAICA

Tel: 876 -922-9267  
Fax: 876- 922-9292  
mail: [rcu@cep.unep.org](mailto:rcu@cep.unep.org)  
[amep@cep.unep.org](mailto:amep@cep.unep.org)

✚ Looking for a specialized laboratory to conduct monitoring and analysis? Check out the CEP lab data base at <http://carrcu.org/> Focal points are requested to provide the Secretariat with any updates to this database.

✚ The Secretariat encourages readers to follow the work of UNEP CEP through Facebook and Twitter at:

<https://www.facebook.com/pages/UNEP-Caribbean-Environment-Programme/417207371654837>

[http://twitter.com/unep\\_cep](http://twitter.com/unep_cep)

*Did you know?*

- That the UNEP administered Cartagena Convention and its Protocol concerning Pollution from Land Based Sources and Activities (LBS Protocol) provides guidance on best management practices to reduce the frequency and severity of pollution incidents and encourages regional cooperation to combat marine pollution.
- That marine based sources of pollution such as wastewater discharges from cruise ships and other vessels, and leaks and spills from oil infrastructure threaten 15% of the region’s reefs.
- That recent studies suggest that 80% of living coral in the reefs of the Caribbean has been lost in the past 20 years.

*Looking Ahead*

(July – September 2013)

<i>Date</i>	<i>Event</i>	<i>Location</i>
2-4 July	Caribbean SIDS Regional Prep Conference <a href="http://www.jis.gov.jm/news/leads/34420">http://www.jis.gov.jm/news/leads/34420</a> <a href="http://www.sids.org">http://www.sids.org</a>	Jamaica
8- 12 July	IX Convención Internacionales Sobre Media Ambiente y Desarrollo <a href="http://www.cubambiente.com/">http://www.cubambiente.com/</a>	Cuba
26-28 August	Inter-regional Preparatory Conference on Small Island Developing States <a href="http://www.sids2014.org/index.php?menu=1494">http://www.sids2014.org/index.php?menu=1494</a>	Barbados
9-11 September	International BiodiverCities Conference <a href="http://www.joondalup.wa.gov.au/Live/Environment/Biod">http://www.joondalup.wa.gov.au/Live/Environment/Biod</a>	Australia
9-13 September	World Bank Global Oceans Action Summit <a href="https://globalpartnershipforoceans.org/global-ocean-act">https://globalpartnershipforoceans.org/global-ocean-act</a>	Netherlands
17-18 September	The Water Expo <a href="http://www.thewaterexpo.com/">http://www.thewaterexpo.com/</a>	United States of America

We hope that you have enjoyed this issue of the AMEP Quarterly and welcome your comments and suggestions. For further information please contact: Mr. Christopher Corbin, AMEP Programme Officer, UNEP CAR/RCU, 14-20 Port Royal Street, Kingston, Jamaica, Tel: (876) 922-9267-9; Fax: (876) 922-9292; Email: [cjc@cep.unep.org](mailto:cjc@cep.unep.org) or [amep@cep.unep.org](mailto:amep@cep.unep.org)

## Announcement

### Second Global Conference on Land Ocean Connections



The **Second Global Conference on Land- Ocean Connections (GLOC-2)** will take place October 2-4, 2013, in Montego Bay, Jamaica. The United Nations Environment Programme (UNEP) and the Government of Jamaica are co-organizers of the conference, the second of its kind, and the first to be convened in Latin America and the Caribbean.

#### **Objectives**

The objective of this conference is to identify approaches to address current and emerging issues in the marine and coastal sector, with a focus on three priority source categories (marine litter, nutrients and wastewater) of the Global Environment Programme of Action for the Protection of the Marine Environment from Land-based Activities for 2012-2016.

The overall purpose of this Conference is to emphasise the interconnectedness of activities on land and how they impact on the oceans, with a focus on pollution prevention, reduction and control, while proposing ways to address these impacts through international and, as appropriate regional cooperation. Specific objectives are:

- To update on progress with implementation of the GPA Manila Declaration.
- To showcase contribution of Regional Seas Conventions and Action Plans to the implementation of the GPA Manila Declaration;
- To identify possible policy pathways at the national level for the implementation of the GPA , including Integrated Coastal Management , and other relevant national policies ; and
- To serve as a partnership forum for the three Global Partnerships on marine litter, nutrients and wastewater.

Expected outcomes:

- Agreement on measurable targets for selected source categories and regions.
- Identification of voluntary commitments to be proposed to relevant sectors (target setting within various areas);
- Identification of priority activities for each partnership to be implemented at global, regional and national levels,
- Additional support and resources mobilized for the three global partnerships under the GPA. For more information, please visit [www.gpa.unep.org](http://www.gpa.unep.org)





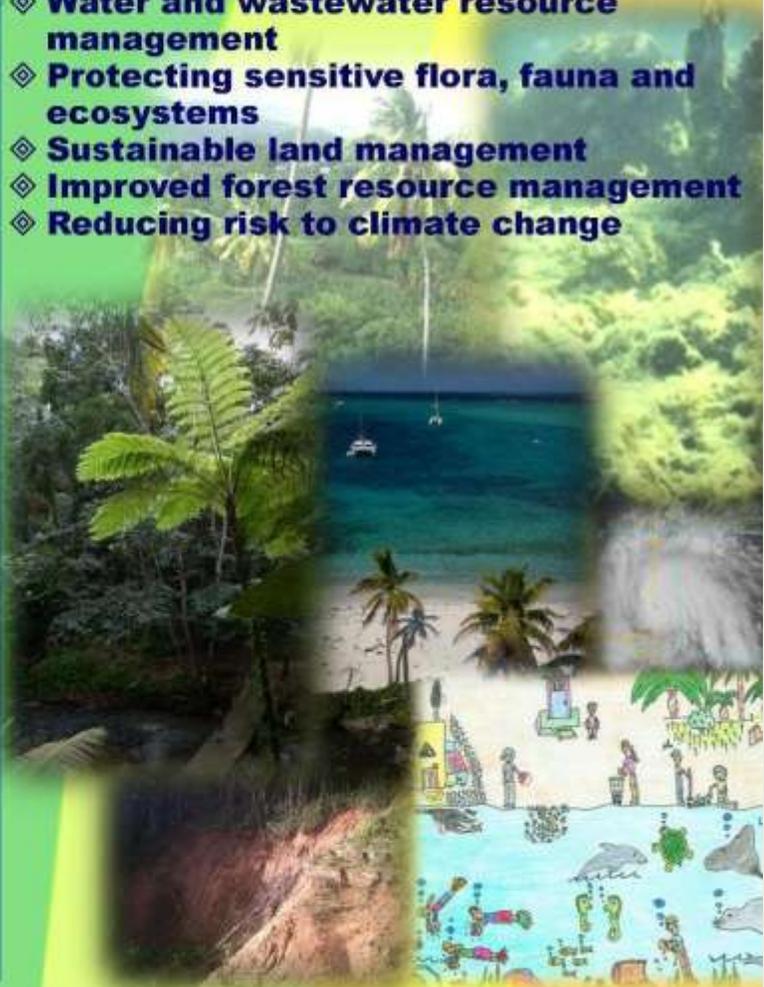
Integrating Water, Land and Ecosystems Management  
In Caribbean Small Island Developing States

# Championing Innovative Solutions! Reducing Threats to Our Fragile Island Environments

The fragile and valuable fresh and coastal waters, lands and ecosystems of our beautiful Caribbean islands are under threat from human influences; a condition that will worsen under the pressures of climate change. We must continue to find ways to reduce the degradation of the natural environment on which we all rely for our very survival. The Global Environment Facility (GEF) has pledged continuing support to our Caribbean countries to address the problems we face and help better manage our precious natural resources. We all must be involved; from the grass-roots community level to the highest levels in government, from our farmers and fishers to our commercial and industrial sectors.

Finding **innovative solutions that work and are sustainable**, supported by appropriate policy and legislation, committed institutions and stakeholders to meet Caribbean and global targets on access to safe and reliable water supplies, improved sanitation and sustainable land management, while contributing to healthy ecosystems is what the **GEF-IWECO Project** is all about!

- ◆ **Water and wastewater resource management**
- ◆ **Protecting sensitive flora, fauna and ecosystems**
- ◆ **Sustainable land management**
- ◆ **Improved forest resource management**
- ◆ **Reducing risk to climate change**





Funded by the Global Environment Facility (GEF)  
Lead partners: United Nations Environment Programme,  
United Nations Development Programme,  
Caribbean Community - CARICOM

To view or download this flyer in its entirety, please visit the link at <http://www.cep.unep.org/news/introducing-the-gef-iweco-project>.

# Country Initiatives



Integrating Water, Land and Ecosystems Management  
In Caribbean Small Island Developing States

The GEF-IWEco Project will feature innovative environmental management solutions financed under the GEF focal areas:

- ◆ International Waters
- ◆ Biodiversity
- ◆ Land Degradation
- ◆ Sustainable Forest Management



## Antigua and Barbuda

Reducing land degradation caused by improper sewage disposal



## Cuba

Conservation of biodiversity through the integrated watershed and coastal zone management approach



## Dominican Republic

Protection of biodiversity from the impacts of industrial waste discharges in the Higuamo River Basin.



## Jamaica

Towards Restoration of the Great Negril Morass Ecosystem



## St Kitts and Nevis

Addressing land degradation through sustainable land management practices in ghauts and other sensitive areas



## Saint Lucia

Improving sustainable land management and pollution reduction in the Soufriere Watershed



## St Vincent and the Grenadines

Improved watershed and biodiversity management practices in the Georgetown watersheds



## Trinidad and Tobago

Promoting innovative solutions in reducing land degradation caused by quarrying



## Barbados and Grenada

Participating countries at regional level (no national projects)



To learn more about this exciting initiative contact:

United Nations Environment Programme's Caribbean Regional Coordinating Unit  
14-20 Port Royal Street, Kingston | JAMAICA | Tel: (876) 922-9267-9 | Email: [rcu@cep.unep.org](mailto:rcu@cep.unep.org)