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## GEF IW:LEARN LEARNING EXCHANGE PROPOSAL AND IDENTIFICATION FORM

### Introduction, Purpose: Why an Exchange

**Rationale:** Social and economic pressure, deforestation and changes in land use are causing erosion and displacement of huge amounts of sediment and nutrients to the rivers of the Amazon Basin and therefore into the Atlantic Ocean. The total amount of sediment carried by the Amazon River to the Atlantic Ocean reaches up to 800 million tons per year. Marine currents deposit enormous amounts of sediments and nutrients along the coasts of the northern part of South America, the Caribbean and marine ecosystems. This process has important impacts on the environment and the people living in these continental and island coastal areas. The deposition of sediments, joined by the effects of climate change causing sea level rise (as shown by the GEF Amazon project), are of increasing concerns which need to be addressed by innovative coastal and ecosystem management approaches in these regions.

### Learning Objectives

- Organization of a Workshop to exchange information and experience between Amazonian and Caribbean experts, research institutions, (incl. representatives of ongoing GEF projects in the region, UNEP and other international organizations) about sediment and nutrient transport from the Amazon Basin to the Caribbean Region.
- Design the draft of an **Amazon - Caribbean twinning project proposal** for the planning and management of coastal and marine areas of Amazon-Guyana-Caribbean region under the influence of the Amazon Basin sediment and nutrient output and rising sea levels as a result of climate change.

### Expected Outputs/Outcomes

1. A list the general expected outcomes of the exchange. Please describe how the exchange will benefit each partner organization. Who expects to learn what and from whom?

- Mutual learning process, and enhanced common understanding of the production, transport, deposition and impacts of sediments and nutrients from the Amazon basin in the Caribbean region
- The partner organizations will benefit through the development and implementation of a common Amazon-Caribbean twinning program based on a set of projects to bridge knowledge gaps and to adapt to the impacts of sedimentation and nutrient flows into the Caribbean region.

2. Please mention any actual outputs of the exchange (ex. publications, websites, action plans, reports, communities of practices)

- The workshop will have the following outputs: (i) the draft of a Project proposal *COASTAL ENVIRONMENT, SEDIMENTATION AND CLIMATE CHANGE – planning and management of coastal areas and marine ecosystems of the Amazon-Guyana's-Caribbean region*, and (ii) implementation of a coordination committee to develop and submit the project proposal to international funds.

3. Please describe any specific outputs from the exchange, which could be useful and benefit the wider GEF international waters portfolio.

- The proposed Workshop and the future project proposal outputs are building up on: (i) activities developed by the GEF-Amazonas project<sup>1</sup>, such as: *Sedimentation rates of the Madera and Solimões Rivers; Sea level rise in the Amazon Delta; Coastal protection using soft technology* (Suriname) and (ii) the GEF funded CLME project<sup>2</sup> which related the impacts of amazon sediments and nutrients on Caribbean coral reefs and fish stock.

4. Please describe at least one or more IW Experience Notes that will result from this exchange (more information about Experience Notes, case studies on project strategies, activities and innovations is available at <http://www.iwlearn.net/experience>)

- The workshop will produce a selection of experience notes of the participating partners concerning the impacts of sediments and nutrients on Amazonian Caribbean coastal, fluvial and marine ecosystems.

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<sup>1</sup> The Project GEF-Amazonas *"Integrated and Sustainable Management of Transboundary Water Resources in the Amazon River Basin Considering Climate Change and Variability"* which is financed by GEF, implemented by UNEP and executed by the Permanent Secretariat of the Amazon Cooperation Treaty Organization (PS/ACTO)

<sup>2</sup> The actually submitted CLME+ Project *"Catalyzing Implementation of the Strategic Action Program for the Sustainable Management of shared Living Marine Resources in the Caribbean and North Brazil Shelf Large Marine Ecosystem"* which covers the Caribbean Large Marine Ecosystem (CLME) and North Brazil Shelf Large Marine Ecosystem (NBSLME) is building on the achievements of the GEF funded CLME project.

## Participants

List all participants of the exchange, along with project/organizational affiliation (note that there must be at least one GEF project included)

Name	Organization (Project Affiliation)	
Lyndon Robertson	Head of Department, Environmental Health and Sustainable Development	Caribbean Public Health Agency (CARPHA)
Francisco Arias	Coordinadora Programa Calidad Ambiental Marina (CAM)	INVEMAR
Luisa Espinosa Diaz	Coordinadora Programa Calidad Ambiental Marina (CAM)	INVEMAR
Rahanna A. Juman	Director (Ag.)	Institute of Marine Affairs
Daryll Banjoo	Senior Research Officer	Institute of Marine Affairs
Antonio Villasal Nuñez	Director RAC Cimab	Centro de Ingeniería y Manejo Ambiental de Bahias
Marlen Perez	Investigadora Auxiliar, Division de Contaminación	Centro de Ingeniería y Manejo Ambiental de Bahias
Sandrine Pivard	SPAW-RAC Director	Regional Activity Centre for Specially Protected Areas and Wildlife
Adrian Cashman	Director - CERMES / Senior Lecture Water Resources Management	UWI Centre for Resource Management & Environmental Studies (CERMES)
Lystra Fletcher-Paul	Representative in Trinidad and Tobago	Food and Agriculture Organization of the UN
Natalie Boodram	Programme Manager, Water, Climate & Development Programme (WACDEP)	Global Water Partnership-Caribbean Secretariat (GWP-C)
Patrick Debels	Regional Project Coordinator	CLME+ Project (UNDP/GEF)
Andrea Salinas	Environmental Mapping and Reporting Specialist	CLME+ Project (UNDP/GEF)
Lorna Inniss	Coordinator	UNEP-CAR/RCU
Christopher Corbin	AMEP Programme officer	UNEP-CAR/RCU
Christopher Cox	<i>(GPA) Programme Officer</i>	UNEP-DEPI
Norbert Fenzl	GEF-Amazonas project, Scientific Coordinator	UFPA, ACTO
Naziano Filizola	UFAM GEF Amazon project	UFAM Researcher

	consultant	
Mamaar Robrini	Amazon project consultant	UFPA Researcher
Fernanda Nascimento	UFOPA GEF Amazon project consultant	UFOPA Researcher
Isaac Ocampo	IIAP-Peru, GEF Amazon project consultant	IIAP
Peter Whalley	GEF project consultant	UK
Siuewnath Naipal	UAK-Suriname, GEF Amazon project consultant	UAK
José Martinelli	UFPA Oceanography	Researcher
Research staff	NUMA UFPA	UFPA

### Logistics

Who is/are the guests, who is the host, where do the travelers go and for how long, list any site visits/events which contribute to the learning objectives.

**The workshop duration:** 3 days during the 1 semester of 2017(exact date already still not available)

**Workshop Location:** Belem, Pará Brazil

**Workshop organization (HOST):** Federal University of Pará, Center for the Environment (NUMA / UFPA)

<http://www.numa.ufpa.br>

(5591) 3201 - 8865

### Finances

Provide a basic overview of the actual costs of the exchange, and who will cover which portion (note that GEF IW:LEARN can only fund travel costs), it is not necessary (although desirable) to provide dollar amounts for expenses not covered by GEF IW:LEARN. Please do indicate who is responsible for which costs however. Please also demonstrate some indicative co-financing from exchange participants and institutions.

**Costs:** 40 K U\$ (IW:LEARN), 20 K U\$ (other funding)

Item	Amount	Responsible
Travel	40 K USD	
Local infrastructure	20 K USD	

### Sustainability

Please describe the potential for continued interchange or cooperation after the GEF IW:LEARN-supported exchange has been completed.

The supported exchange will be the starting point for a long-term cooperation, based on the design, submission and execution of a common Amazon-Caribbean project.

## Agenda

If available, please include a (draft) agenda of the exchange.

### Workshop Agenda draft

**First day (morning):** Opening session, Presentations of invited institutions  
The invited institutions present their experiences and projects related to coastal management focusing on the impacts of sedimentation, increasing nutrients and the rise of sea level.

**First day (afternoon):** Selection of the main thematic issues that should be part of a joint project proposal, organize working groups for each thematic issue

**Second day (morning):** Working groups present their results.

**Second day (afternoon):** the working group leaders meet and prepare the basic topics of the draft proposal. Selection of a first coordination group to monitor the follow up of project development

**Third day:** visit to the Amazon delta Island Marajó