

The Sixth Meeting of the Conference of Parties to the Protocol Concerning Pollution from Land-Based Sources and Activities in the Wider Caribbean

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UN
environment
programme



The Protocol Concerning Pollution from Land-Based Sources and Activities (LBS Protocol)

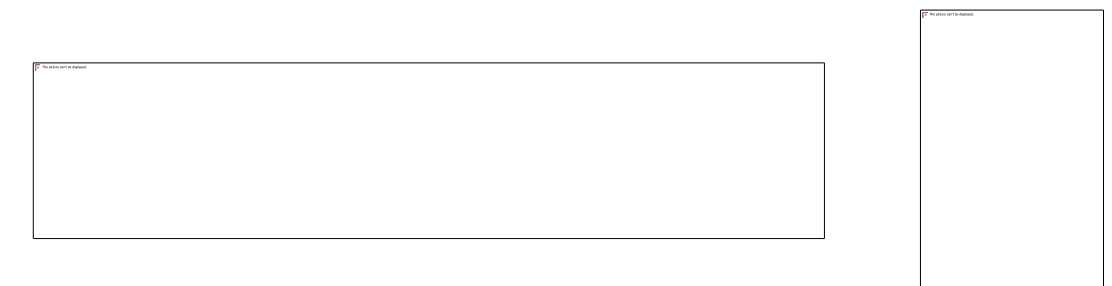
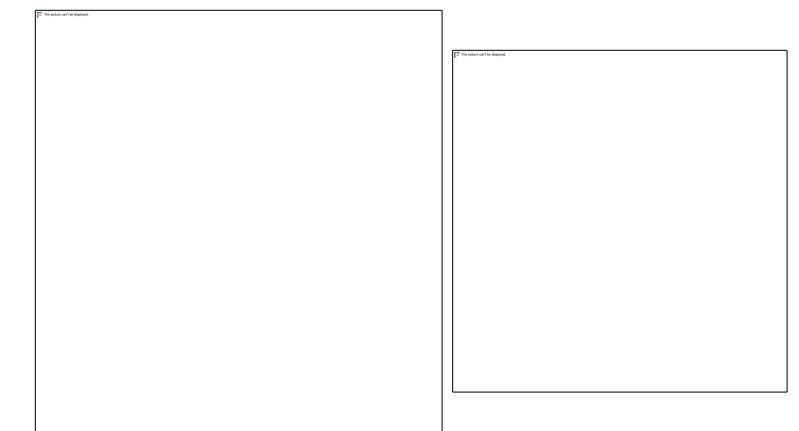


Objectives of the LBS Protocol:

- I. Reduce pollution by setting emission and effluent limitations and/or through best management practices
- II. Exchange information on land-based pollution through cooperation in monitoring and investigation.

Obligations:

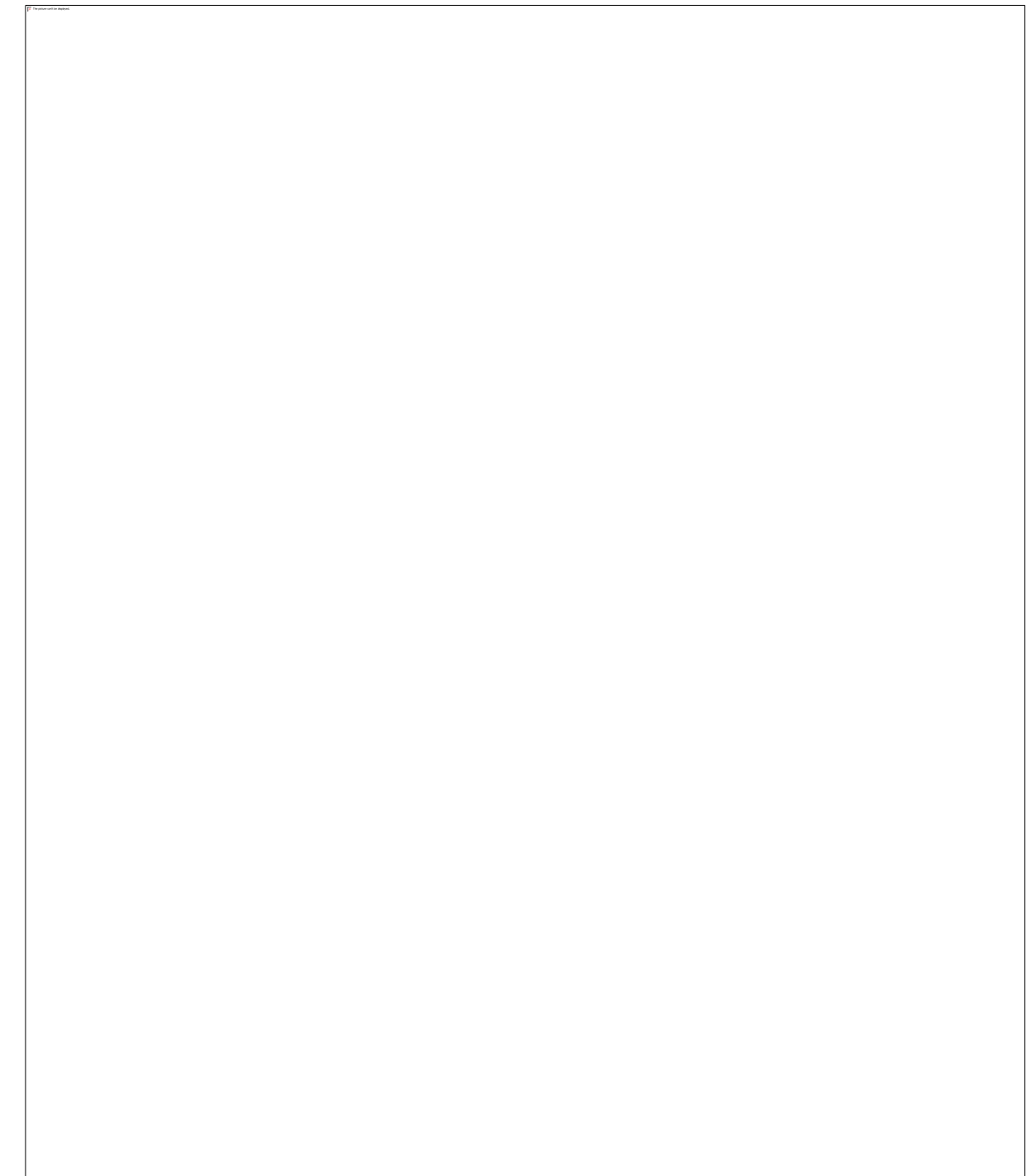
- I. Classify recreational water bodies based on pollution risk to human health & the environment
- II. Establish legally binding standards for sewage effluent & discharges
- III. Develop National Programmes of Action for Integrated Watershed and Coastal Area Management
- IV. Identify & assess sources & activities contributing to pollution
- V. Develop management plans & demonstration projects to reduce marine pollution



New Appointment: The Institute of Marine Affairs (IMA)

Dr. Ava Maxam joined the IMA and assumed duties on 4th September 2023.

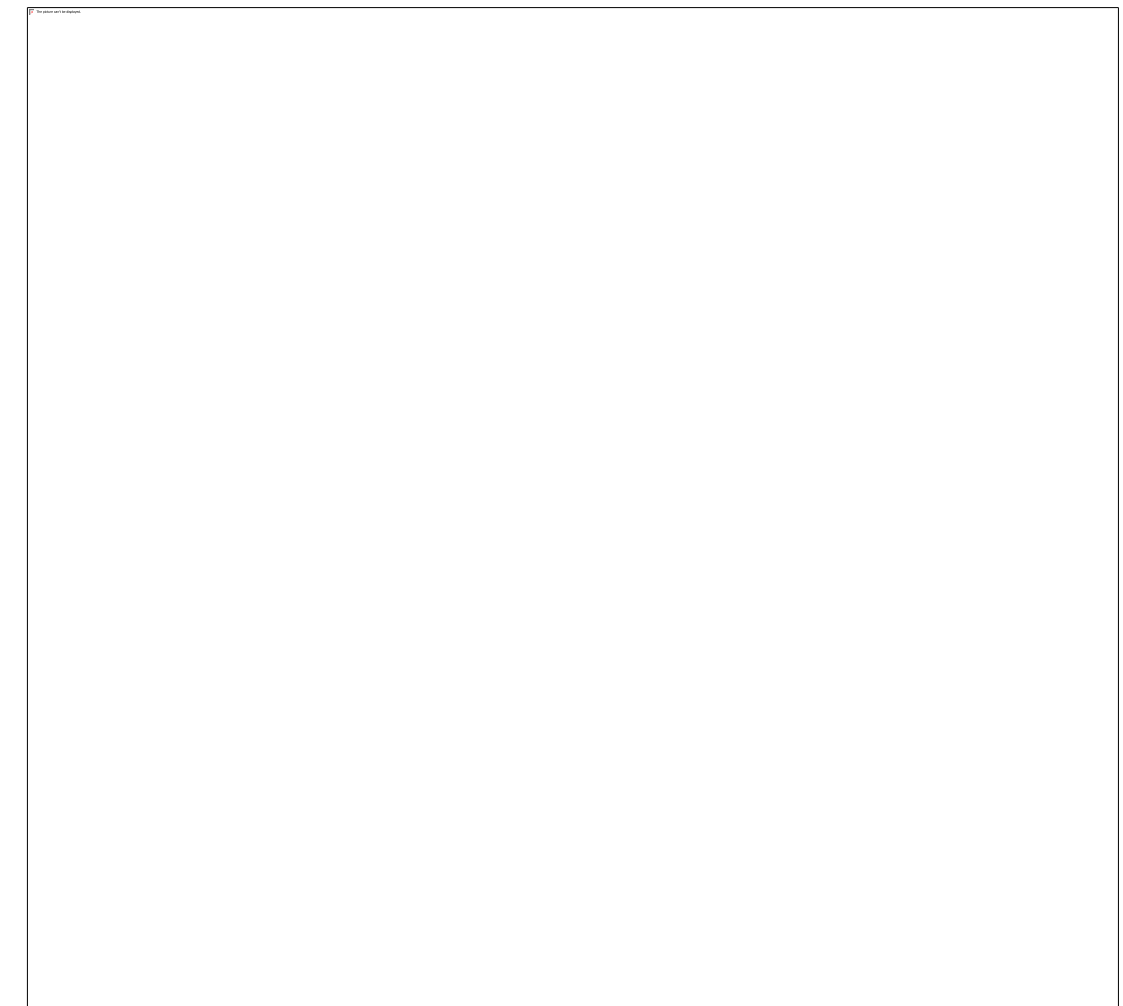
She is experienced in the areas of coastal and environmental management, sustainable development, and spatial business solutions development.



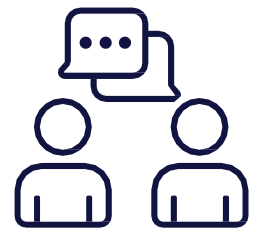
New Appointment: Centre of Research and Environmental Management of Transport (CIMAB)

Dr. Luis Garcia Abreu joined the Cimab in December 2022.

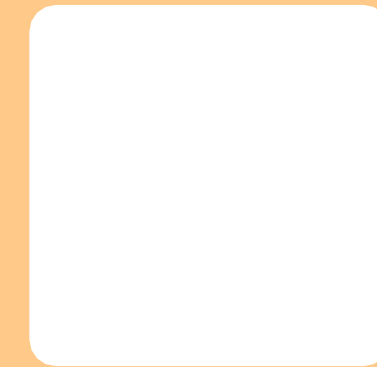
He has a Ph.D. In the area of Environment and Transport



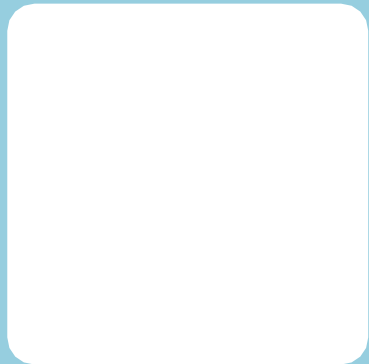
Thematic Approach: Summary of Activities



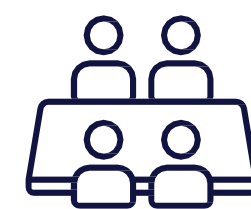
**Programme Coordination
& Management**



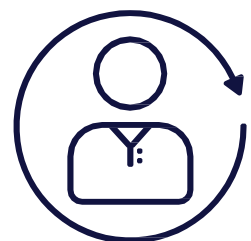
**Ecosystem-Based
Management
Approaches**



**Land & Marine- Based
Sources of Pollution**

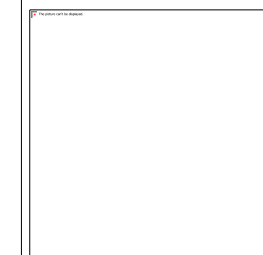
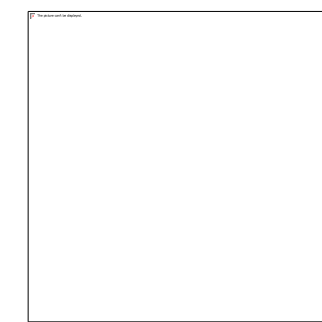


**Knowledge
Management &
Communications**



**Monitoring & Integrated
Ecosystem Assessment**

A. Programme Coordination and Management



STATUS OF THE DECISIONS OF THE 5TH CONFERENCE OF PARTIES TO THE LBS PROTOCOL

Secretariat to engage in partnerships with non-governmental organizations and private sector entities to support the implementation of the LBS Protocol- Decision 1

• Ongoing

Endorse the Medium-Term Strategic Plans presented by RAC IMA and RAC CIMAB and request the development of biennial work plans by the LBS RACs- Decision 5

• Completed

LBS RACs to support the Secretariat in resource mobilization and provide technical support and advice to Contracting Parties for implementing the LBS Protocol, and to Non-Contracting Parties for ratification of the LBS Protocol- Decision 6

• Completed

Adopt the Regional Nutrients Pollution Reduction Strategy and Action Plan (RNPSAP) and request the OEWG TO provide technical support and oversight for its phased implementation at national and regional levels- Decisions 7

• Ongoing

Establish four thematic sub-groups of the OEWG to consider issues of importance for the further development of the LBS Protocol- Decision 9

• Completed

Secretariat to strengthen the integration between the LBS and SPAW Working Groups, including the cross-representation of experts- Decisions 11

• Ongoing

STATUS OF THE DECISIONS OF THE 5TH CONFERENCE OF PARTIES TO THE LBS PROTOCOL

Secretariat to continue its efforts to promote the work of the RAC REMPEITC-Caribe and encourage greater collaboration among all the RACs of the Cartagena Convention and its Protocols-.Decision 12

• Completed

Secretariat to enhance its efforts to finalize the Host Agreement with the Government of Cuba for the formal recognition of RAC CIMAB as an LBS RAC- Decision 13

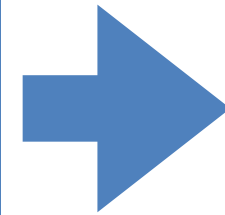
• Ongoing

Secretariat to implement measures to make it easier for Contracting Parties to complete and submit national reports including establishing a fixed deadline for submission of these reports- Decision 15

• Completed

Programme Coordination and Management

REGIONAL COORDINATION, COLLABORATION & SYNERGIES



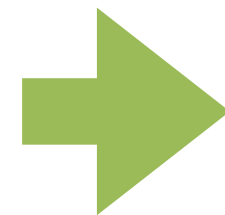
- New cooperation agreements signed with partners, e.g., LBS RACs, OSPAR
- Discussions with International Atomic Energy Agency/INVEMAR and promoting greater cooperation among environmental laboratories – Regional Activity Network - REMARCO

SUPPORT FOR RATIFICATION OF THE LBS PROTOCOL



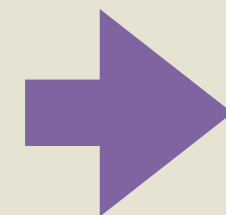
- Workshops for Non-Contracting Parties – Needs Assessment
- Technical guidance provided to Suriname, Saint Kitts-Nevis and St. Vincent and the Grenadines
- Decisions of Project Steering Committees

TECHNICAL SUPPORT TO IMPLEMENT THE OIL SPILLS & LBS PROTOCOLS



- Nutrient management, Integrated Water and Wastewater Management, plastics and marine litter (Integration with MPAs grants under SPAW)
- GEF IWEco, GEF CReW+, ACP MEAs III, Sida Grant, GPNM and Norway to provide financial support.

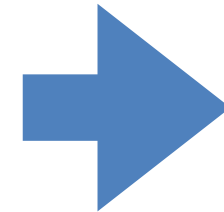
PROJECT DEVELOPMENT & APPROVAL



- GEF International Waters (IW):
 - GEF Gulf of Mexico Large Marine Ecosystem (GoM LME) Project
 - GEF IW: LEARN 5
- GEF 8 **Pipeline**
- GEF LAC Cities: Pan, Col & Jam
- ProCaribe: Regional
- PROMAR: BVI, TnT, Guy, Sur & SKN

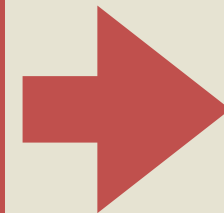
Programme Coordination and Management (cont'd)

SUPPORT TO THE OPEN-ENDED WORKING GROUP



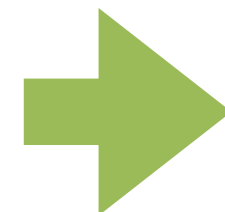
Virtual meetings convened, thematic sub-groups established, experts nominated, and officers elected.

CAPACITY BUILDING INITIATIVES



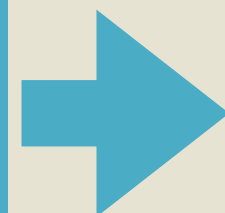
- Geographical Information Systems (GIS) to address oil spill pollution, preparedness and response
- Behaviour change workshop planned for 2023 to control, reduce and prevent marine pollution from domestic wastewater (TNC)
- Wastewater Management – GEF CReW+ Academy
- Monitoring of Water Quality

RESOURCE MOBILIZATION



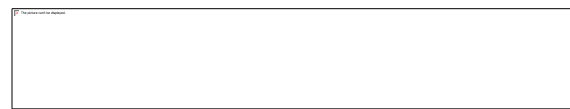
- Swedish Ministry of Environment
- ACP MEAs III Project
- GEF CReW+ Project
- Government of Germany
- The Global Partnership on Nutrient Management (GPNM)
- The Swedish International Development Cooperation Agency (SIDA) grant (UNEP Headquarters)

STRATEGIC COMMITTEES



- Committee for Regional Strategic Action Plan on Water Resources Management (RSAP)
- Global Water Partnership Caribbean Technical Committee
- BASEL Convention Plastics Working Group
- Regional Committee on Solid Waste
- Ocean Sewage Alliance and other Regional and Global Initiatives

B. Land & Marine-Based Sources of Pollution



LBS: Oil Spills, Marine Litter & Nutrients

- Providing technical support to parties to assess, prepare and adopt national contingency plans (Barbados)
- Integrate early warning systems on Oil spills and sargassum led by IMA, through COSTA Program and NOAA
- Drafts regulations for the International Convention for the Prevention of Pollution from Ships (MARPOL), (Dominican Republic)
- Marine Litter/Plastic Reduction Strategy and Action Plan for Saint Lucia with co-financing from UNEP Global Marine Litter Partnership.
- Provided technical input to the development of National Marine Litter Action Plan for Belize
- Support to implementation of the Regional Nutrients Pollution Reduction Strategy – Case Studies developed for Jamaica and Barbados

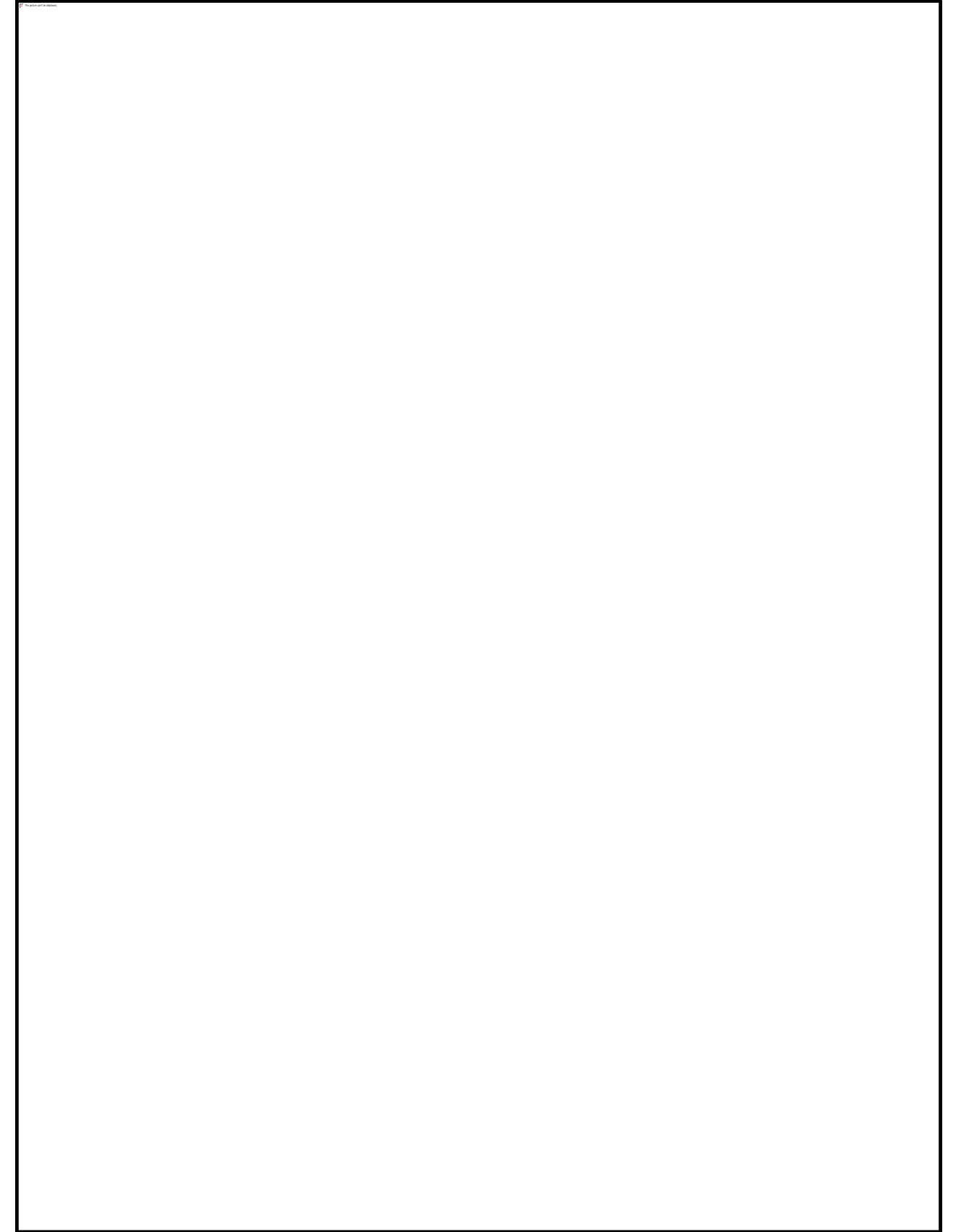
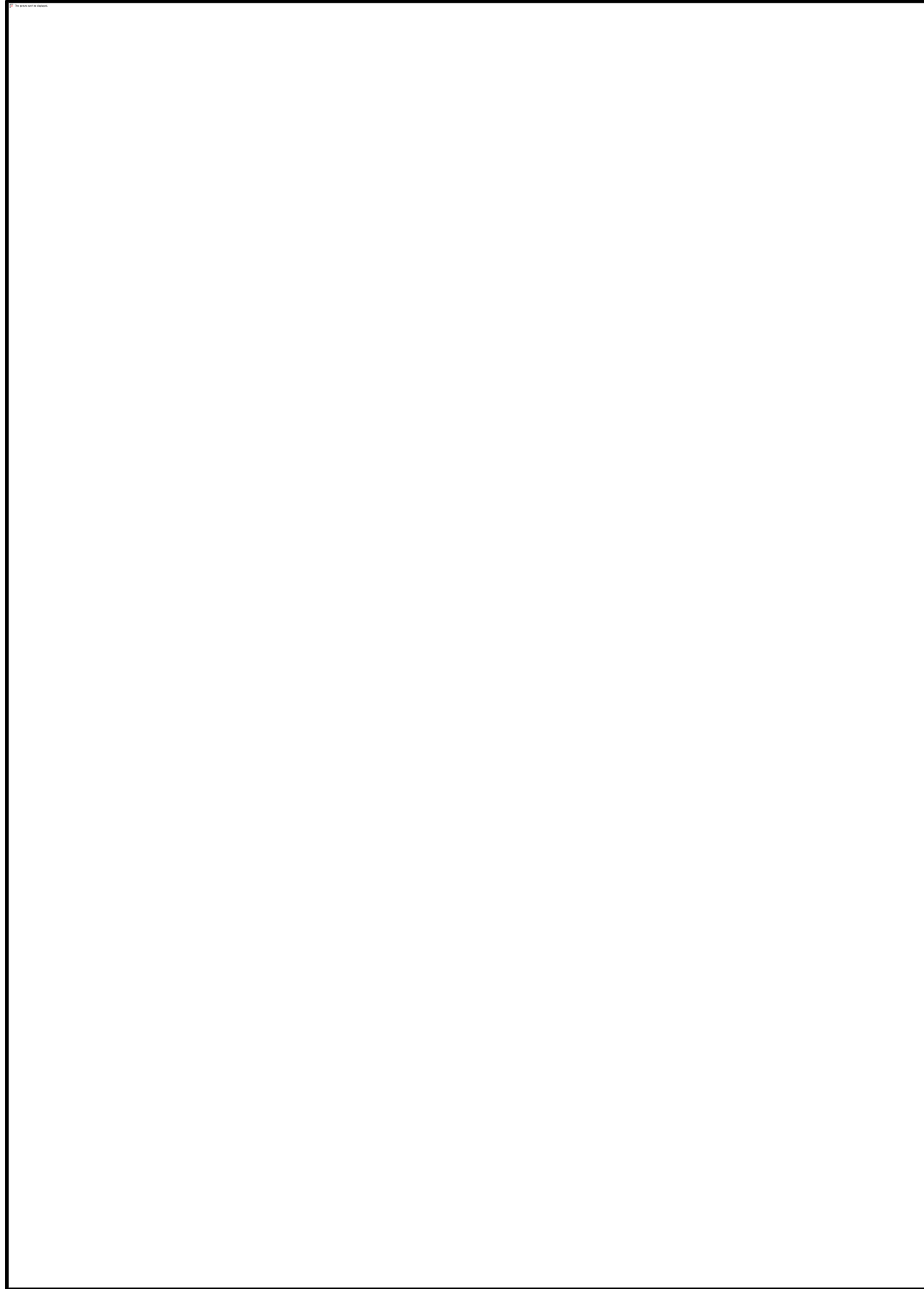


**Regional Marine Pollution
Emergency, Information and
Training Centre- Caribe**



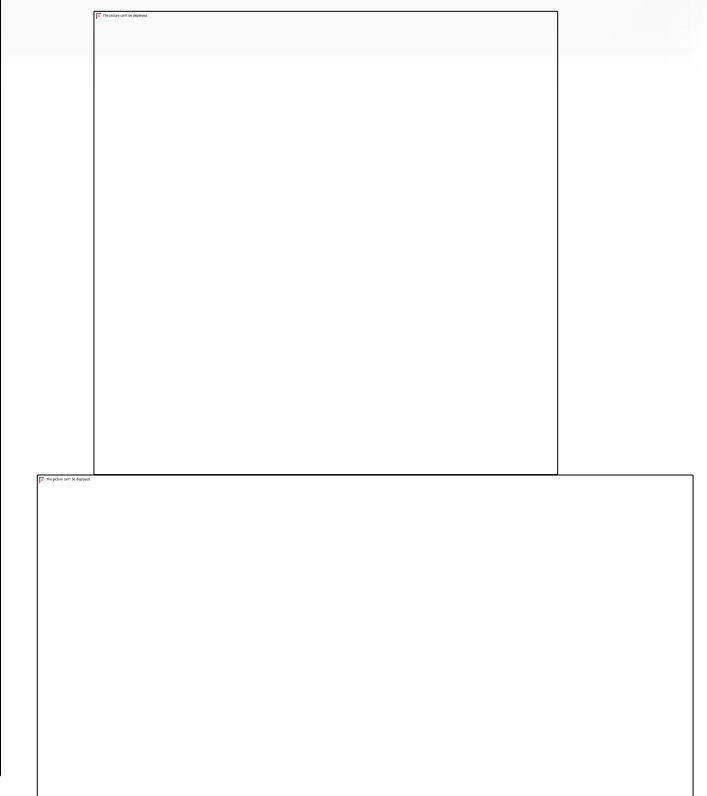
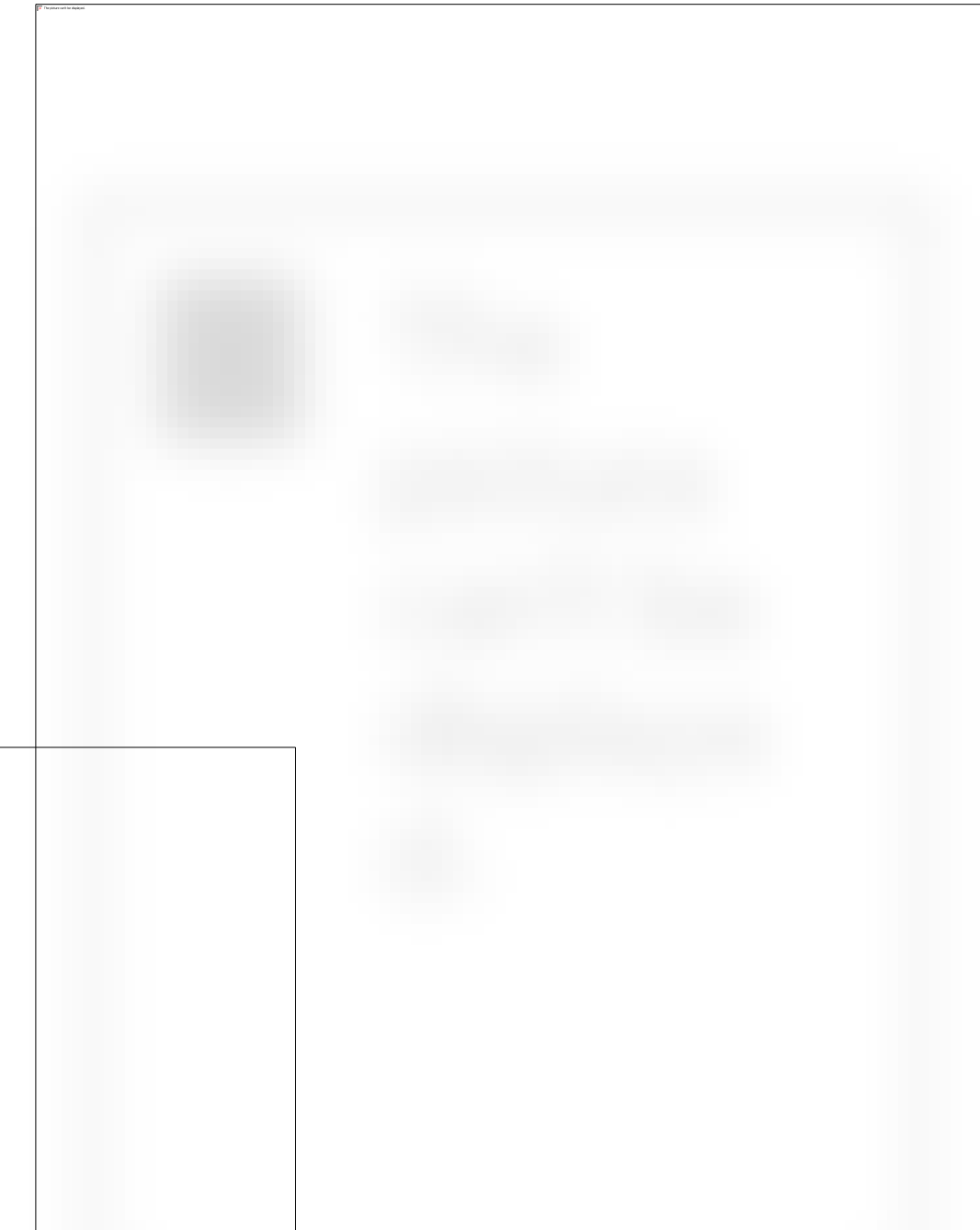
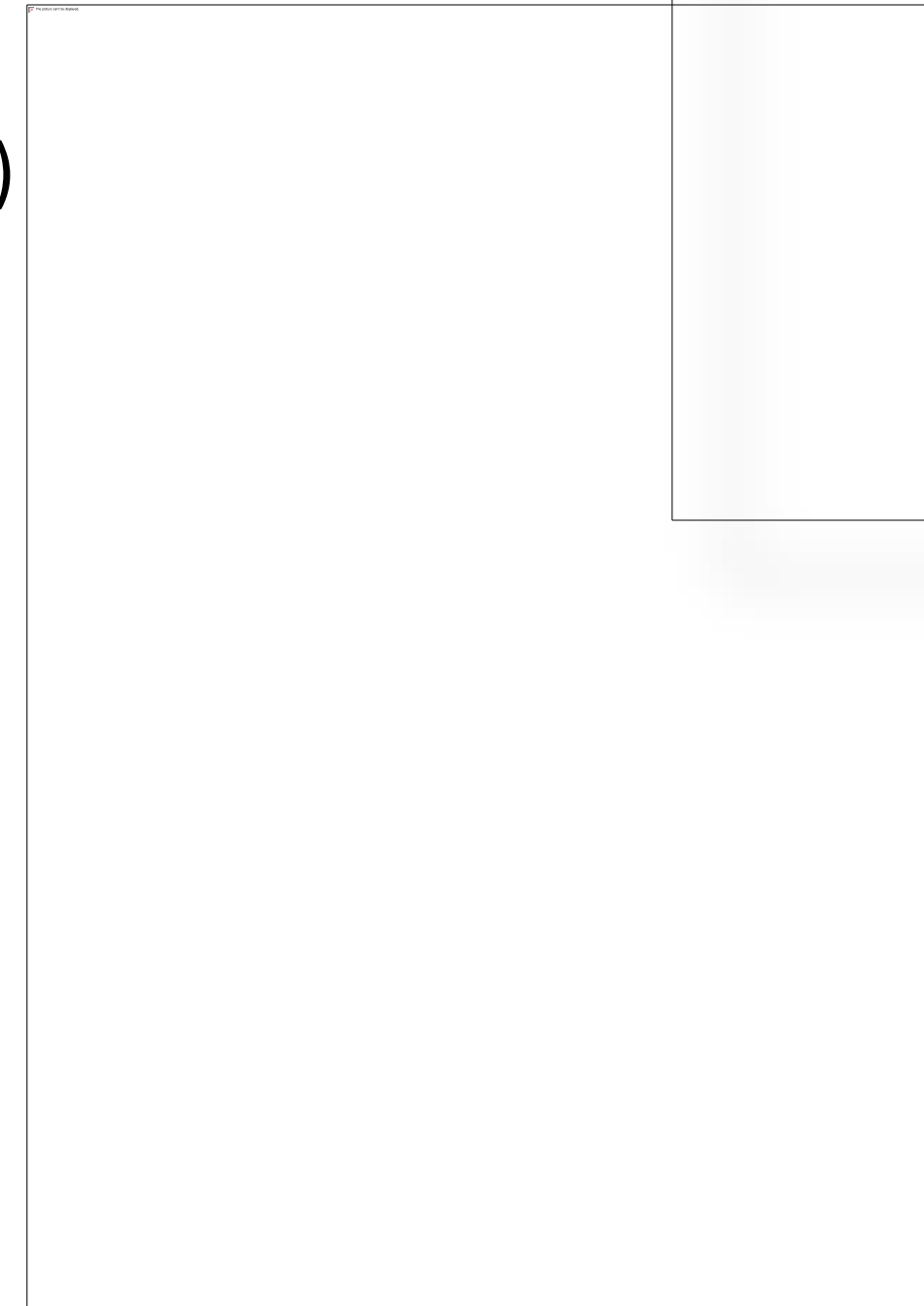
ACP MEAs III Project

Marine Litter Publications

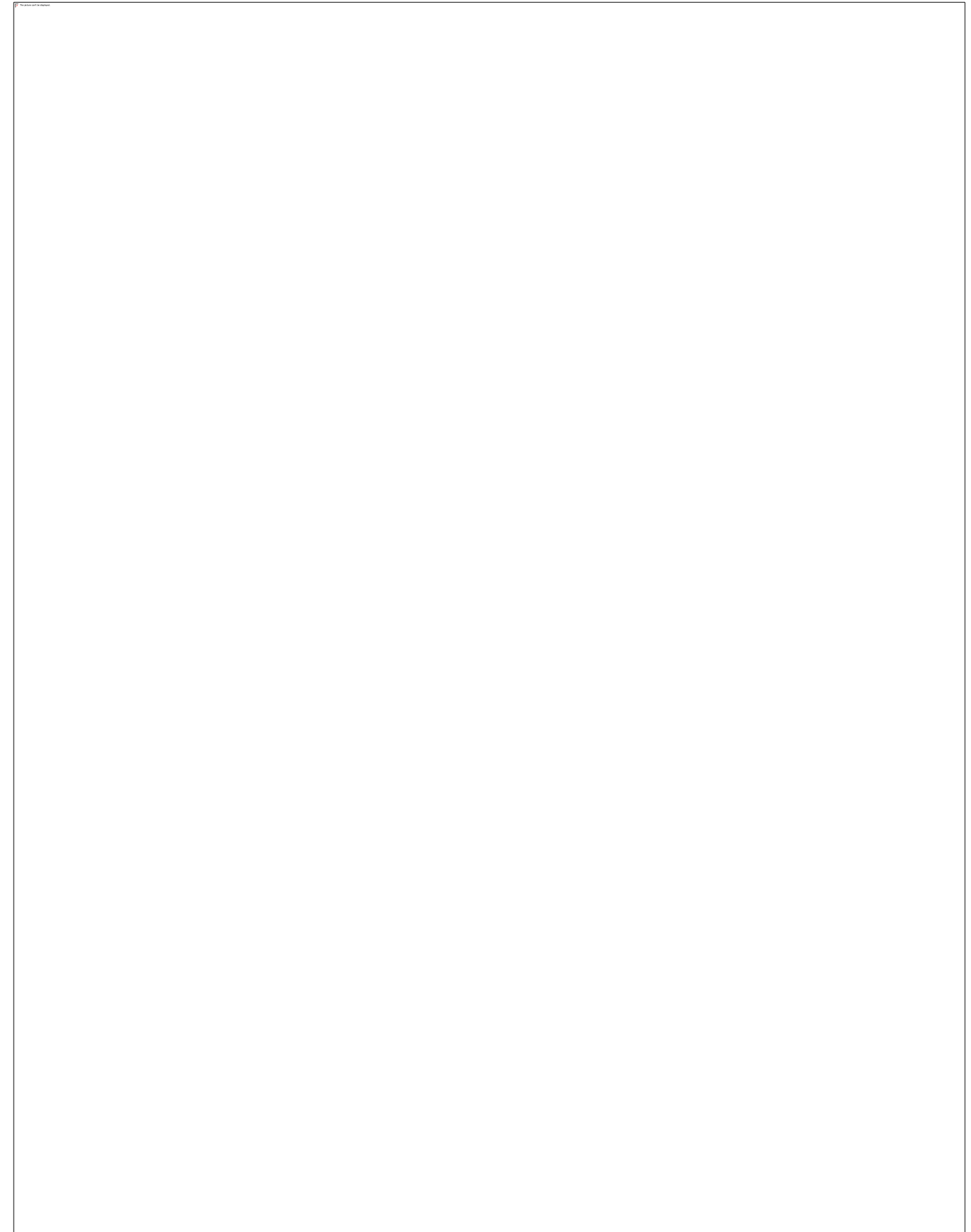
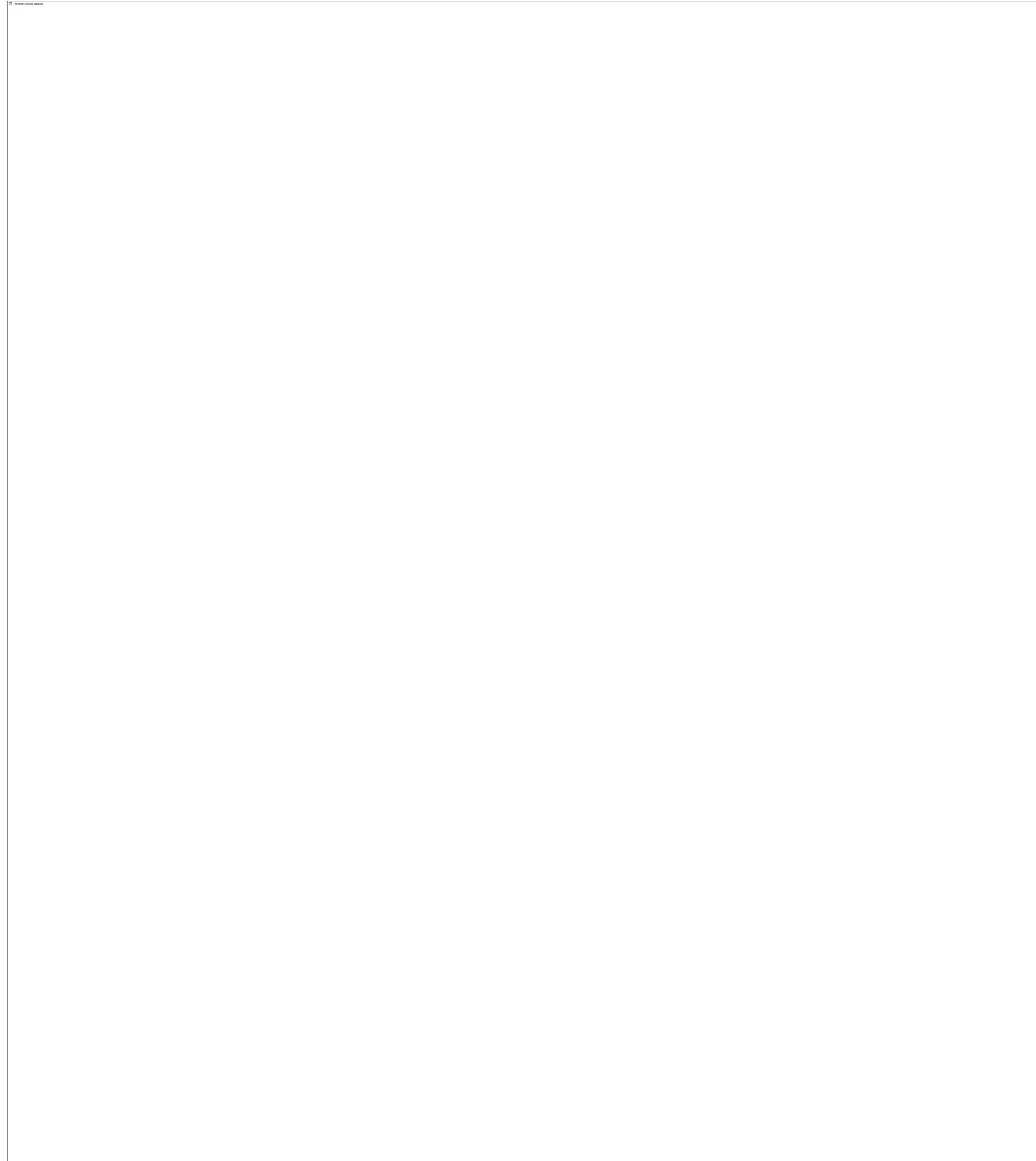


Global Partnership on Marine Litter

- Gulf and Caribbean Fisheries Institute – co-host of Caribbean Regional Node (GPML-Caribe)
- Support for UN Volunteer at the Secretariat
- Technical sessions on marine litter through the Caribbean Node (7IMDC)
- Marine litter prevention small grants programme (ACP MEA III)
 - US\$108,595 awarded
 - 3 marine litter
 - 3 hybrid community-based projects on plastic reduction, reuse, and recycling
- Global Ghost Gear Initiative pilot in Small Island Developing States - GCFI
- Support to update the Caribbean Waste Management Plan (CWMAP) and Central America Regional Marine Litter Plan – close collaboration with the Regional Office in Panama



Publications

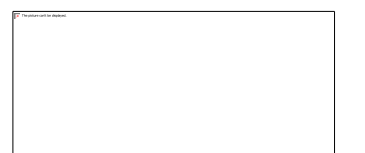
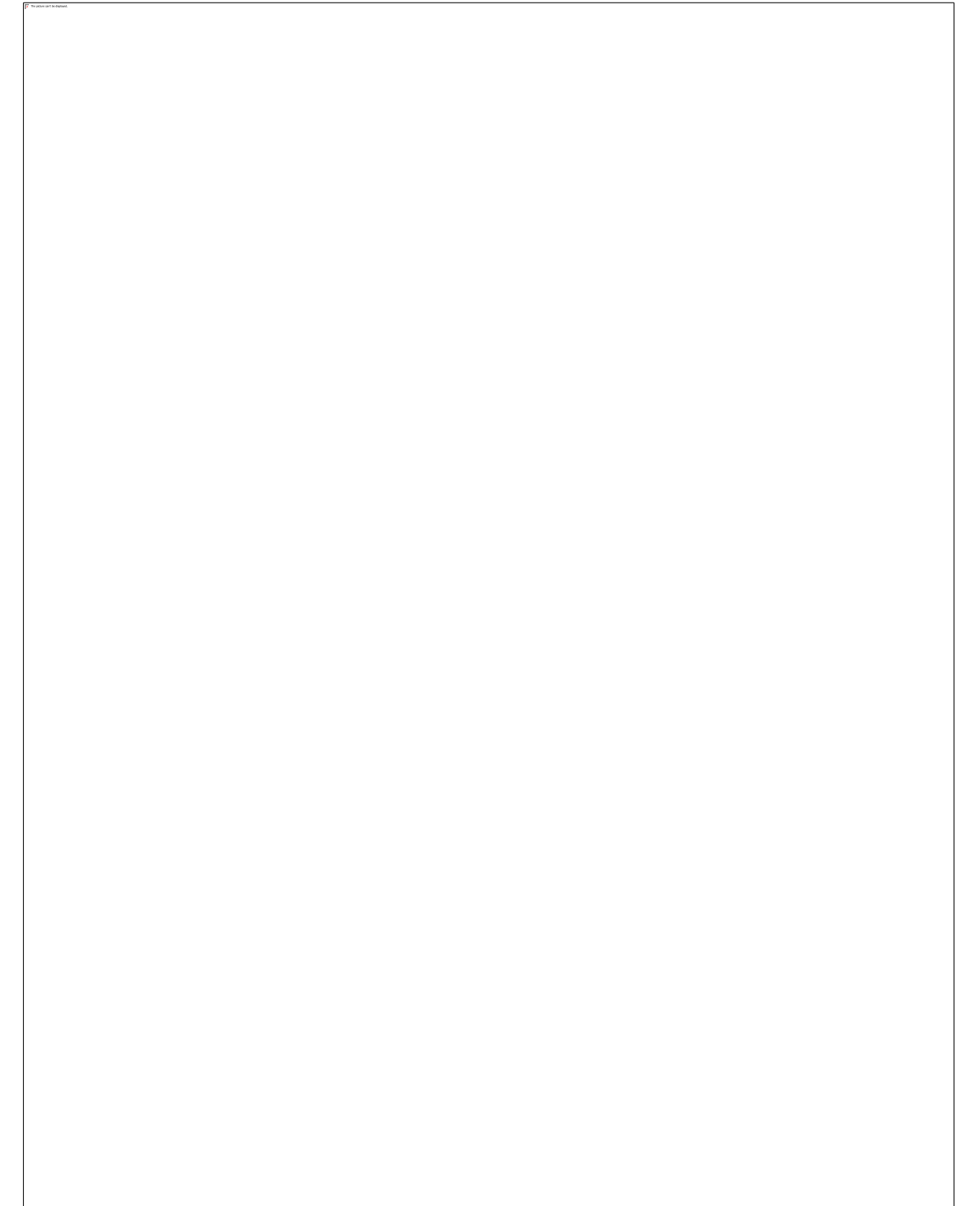


C. Monitoring & Integrated Ecosystem Assessment

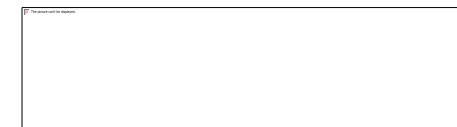
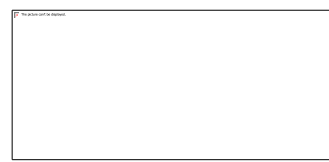
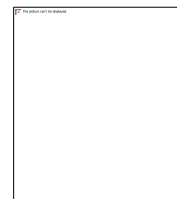


Monitoring systems and capacity

- Regional Environmental Monitoring Data Portal (REMDAP) under development for GEF IWEco countries.
- National Water Information Management Systems (WIMS) under development for 6 GEF CReW+ countries.
- Regional environmental monitoring platform developed with support of University of Geneva
- Technical capacity-building sessions convened, e.g., laboratory training (UNITAR), Microplastics (ACS), Index of Coastal Eutrophication (OSPAR), and nutrients workshop (LBS RACs)
- Partners – Association of Caribbean States, LBS Regional Activity Centres (RACs), INVEMAR, Barcelona Convention, Plan Bleu (RAC for Information)
- Collaboration with the Science Division – Global Environment Monitoring Systems (GEMS Oceans and Freshwater) linking to World Environment Situation Room



D. Ecosystem-Based Management





[Hello rain - Rainwater harvesting](#)

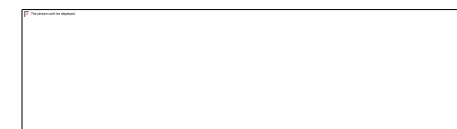
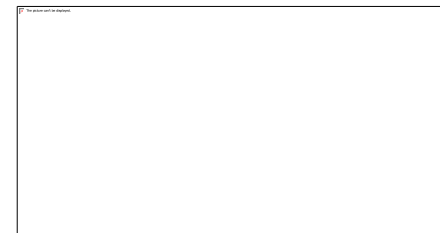
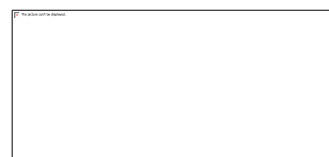
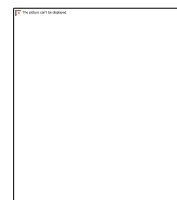
Developed through UN Human Security Trust Fund Project for Jamaica

EBM Initiatives

- Conclusion of EBM projects in Guyana, Suriname and Trinidad and Tobago – Video and Case Study
- Ongoing Implementation of National Projects under GEF IWEco (10 countries) and GEF CReW+ (18 countries)
- Enabling Training activities on Integrated Water and Wastewater Management e.g. Media, Youth (GEF CReW+)
- Call for small grants proposals and scholarships by Global Water Partnership Caribbean – GWP C (GEF CReW+)
- Training and pilot projects through the Caribbean Association of Water Utilities – CAWASA and the Caribbean Water and Wastewater Association



E. KNOWLEDGE MANAGEMENT

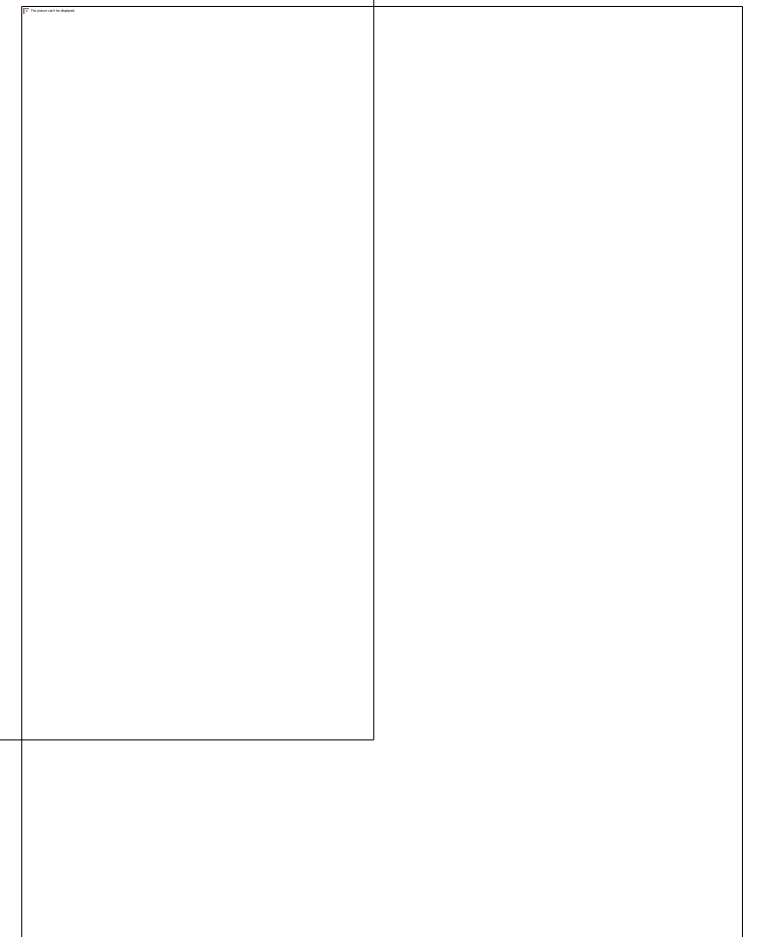
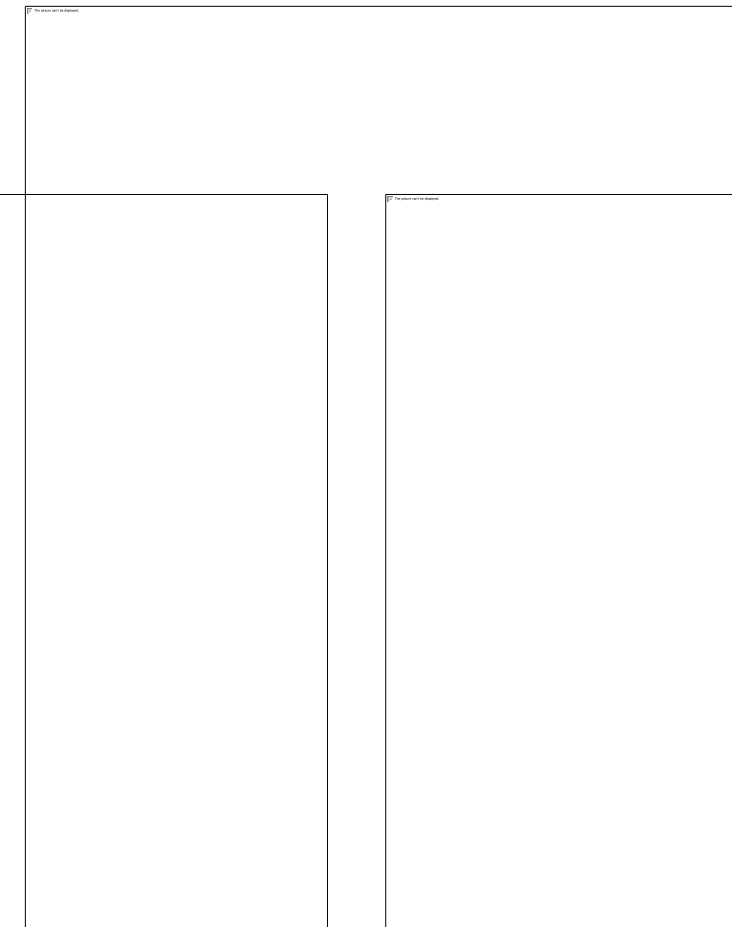
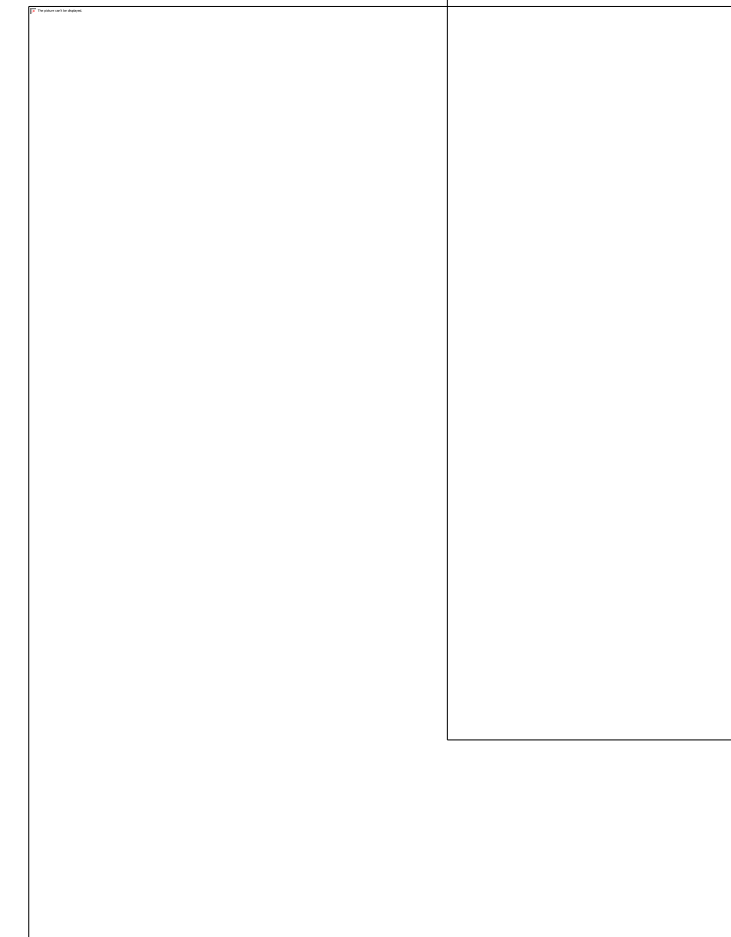
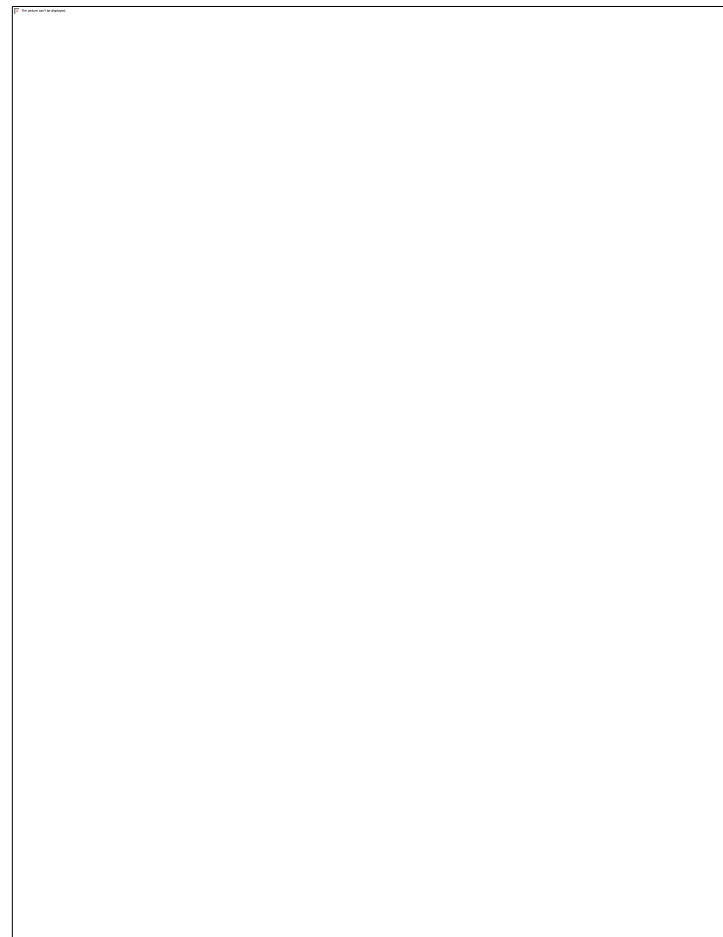
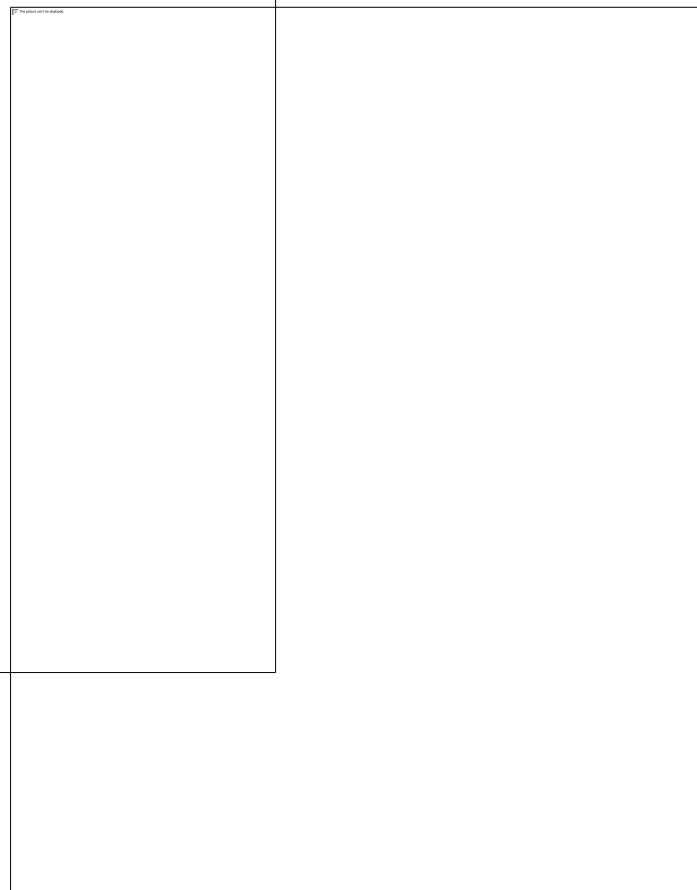
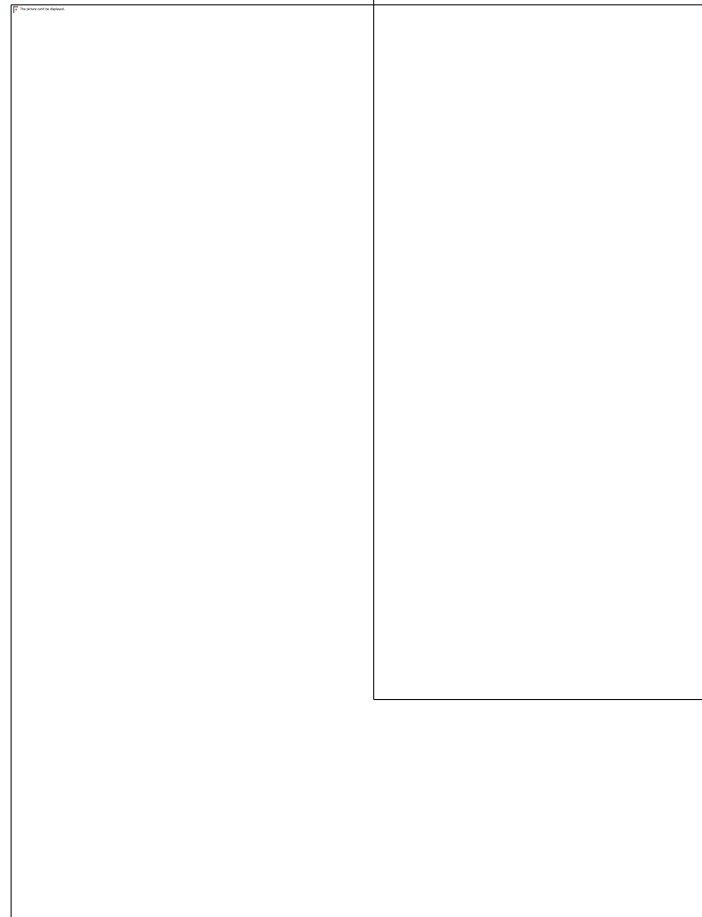
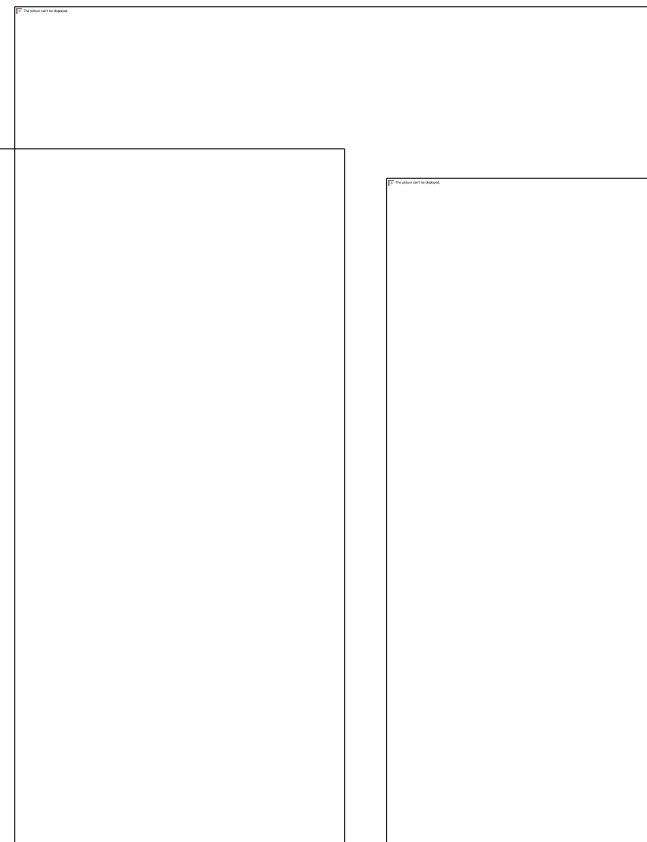
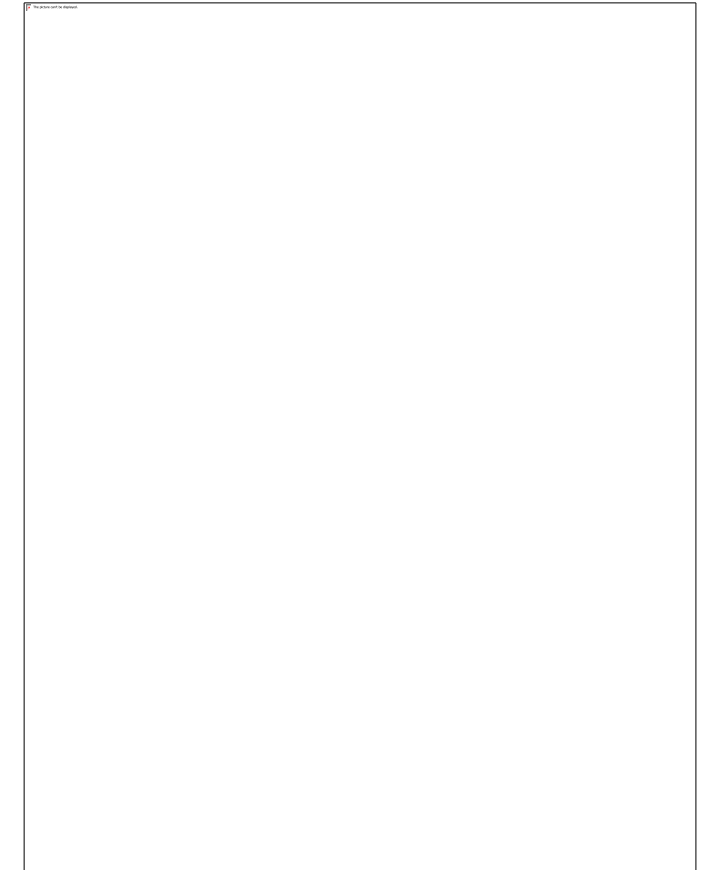
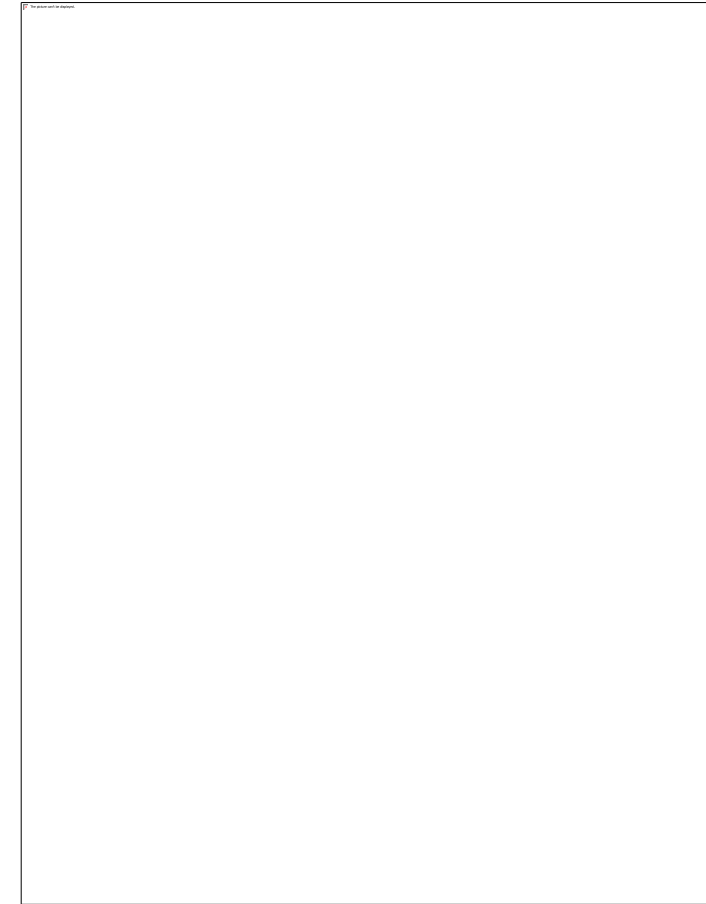
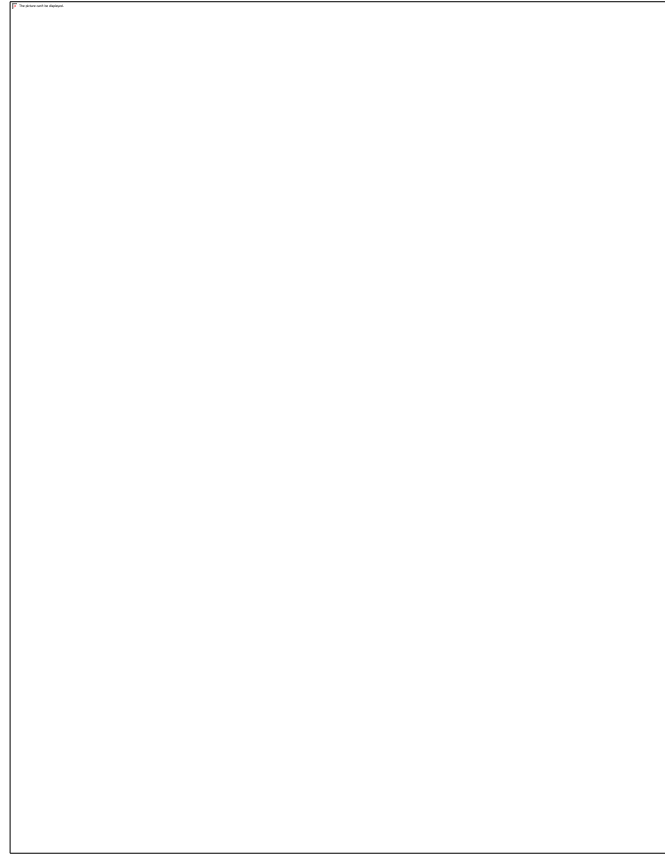


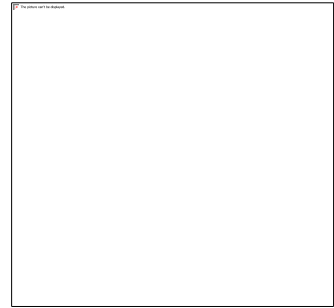
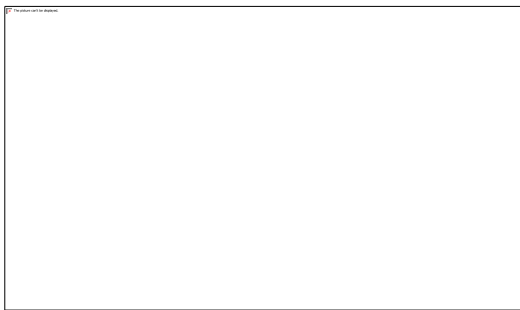
State of Convention Area Report on Marine
Pollution (SOCAR), Regional Nutrients Pollution
Reduction Strategy - Synergies with the State of
Habitat Reports & RSAP

Summaries developed by CANARI in English,
Spanish & French

To download, visit:

<https://www.unep.org/cep/>





Maximizing support available through projects (ACP MEAs III) based on requests from Contracting Countries

Delays in processing time for projects and recruitment

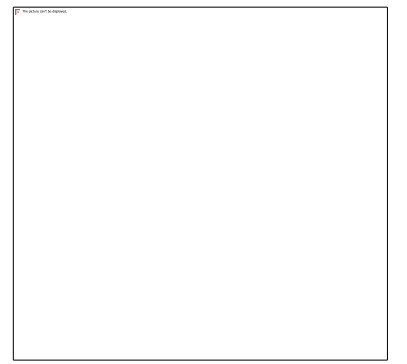
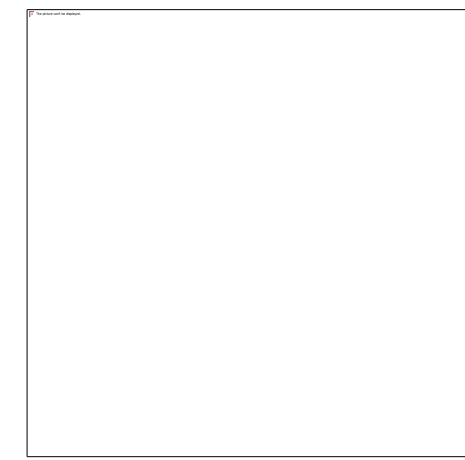
Untimely updates of new/ replacement Focal Points

Ratification of the LBS Protocol

Contributions to the Caribbean Trust Fund

Engagement of Focal Points – participation in Open Ended Working Group on Monitoring and Assessment

Ongoing IWEco Project Activities in 2023



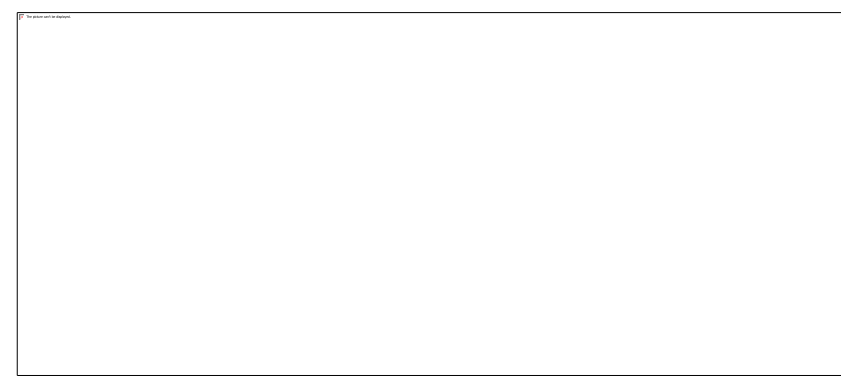
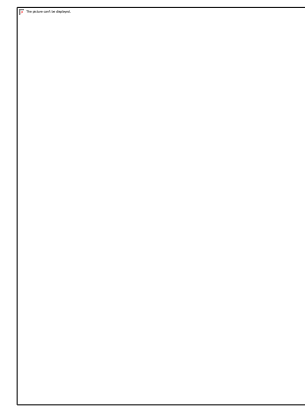
Development of Draft Regional Action Framework for IWRM for CARICOM Region: work towards finalization ongoing.

Regional Environmental Monitoring Data Portal (REMDAP) development: Inception Meeting- Jan; Draft vision & consultation – April to June; Pilot REMDAP – June; Training – August.

Support to Enhanced Resource Stewardship & Climate-Resilient Livelihoods in 5 IWEco countries: training completed, May; coaching, mentoring & micro-grant scheme, September.

National sub-Project activities demonstrating an integrated management approach: 3 countries – Cuba, SKN & T&T completed; 3 countries significant progress – SLU, DR and SVG.

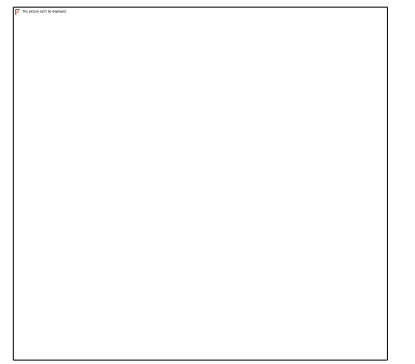
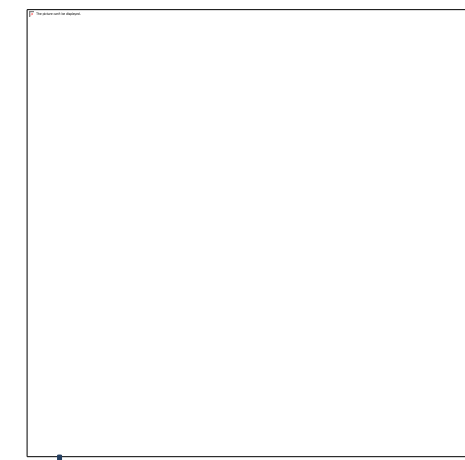
Sargassum 4-Part Short Video Series: collaboration with Cartagena Convention Secretariat – launched in January 2023.



**Beneficiaries of the Enhanced Resource
Stewardship & Climate-Resilient
Livelihoods project**

**National sub-project activities in Saint Kitts &
Nevis demonstrating an integrated management
approach**

Ongoing ACP MEA III Project Activities in 2023



ACP MEAs III - Enhance the mainstreaming and implementation of MEAs related to biodiversity and chemicals and waste, and the strengthening of the implementation of regional seas conventions in ACP countries.

Governance

- Improved compliance with MARPOL Convention by the Dominican Republic
- Update of National Oil Spills Contingency Plan and Dispersant Use Policy in Barbados.
- Final Draft of 2023-2030 Draft Regional Strategy including Translation

SPAW

- 5 small grants for the management of marine protected areas within the WCR through GCFI.
- Work Plan finalized and Agreement signed with SPAW RAC for work on MPA network, enhance MPA Working Group and provide training for coral reef monitoring

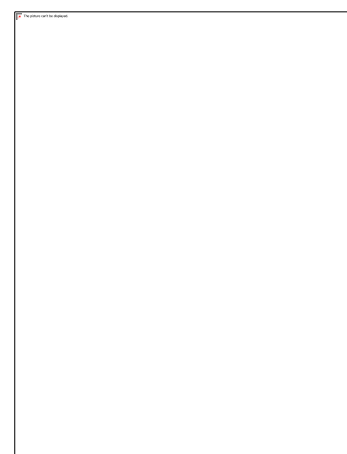
LBS

- 4 small grants for community-based water and wastewater projects in Dominica, Dominican Republic, St. Vincent and the Grenadines and Antigua and Barbuda (GWP C & GEF CReW+)
- 2 Nutrient Case Studies in Barbados and Jamaica (GEF CReW+)
- National Marine Litter/Plastics Reduction Strategy and Action Plan in Saint Lucia (UNEP HQ - GPML)
- Agreements finalized with Suriname and Guyana for EBM projects building on work by GEF CLME+.

Knowledge Management

- Technical Brief developed to support the intergovernmental negotiating committee (INC) process on plastics

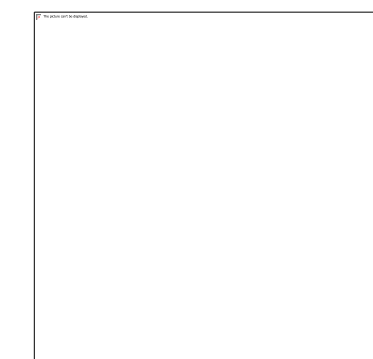
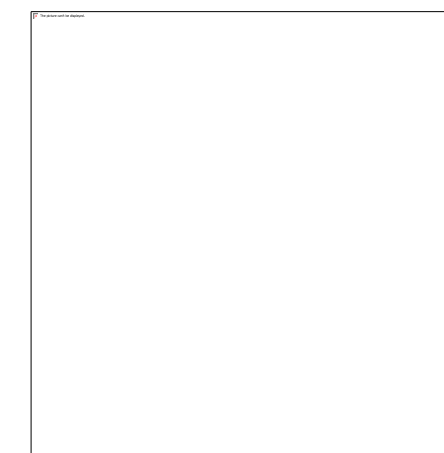
Implementation of Projects approved in 2022



LAC Cities - Reduce marine plastics and plastic pollution in Latin American and Caribbean cities through a circular economy approach (**Panama, Jamaica, Colombia**)



Prevention of Marine Litter in the Caribbean Sea - Promoting Circular Economy Solutions in the Dominican Republic, Costa Rica, Colombia, **the British Virgin Islands, Guyana, Suriname, Saint Kitts & Nevis, and Trinidad & Tobago**



January 2023

Planning and Convening of Virtual Inception Meeting

June-July 2023

Recruitment and Selection of Regional Project Manager

August 2023

Planning and Convening of Inception Workshop and First Project Steering Committee Meeting (Panama City, Panama)

November 2022

Planning and convening of Virtual Workshop

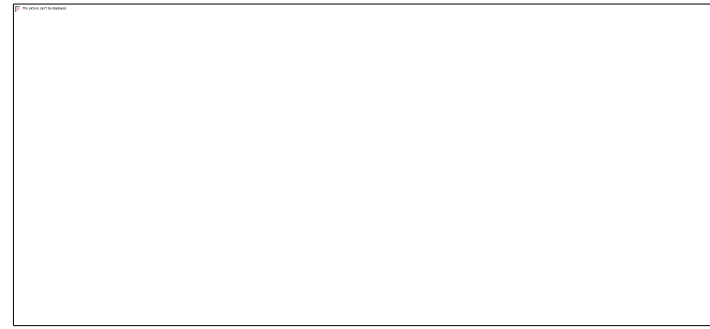
February 2023

Planning and Convening of Stakeholder Workshop

June-July 2023

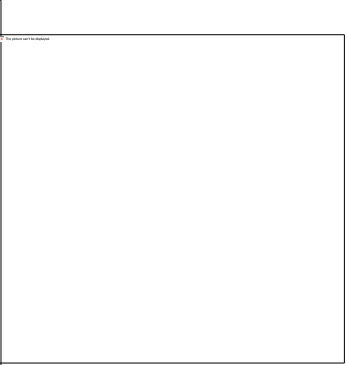
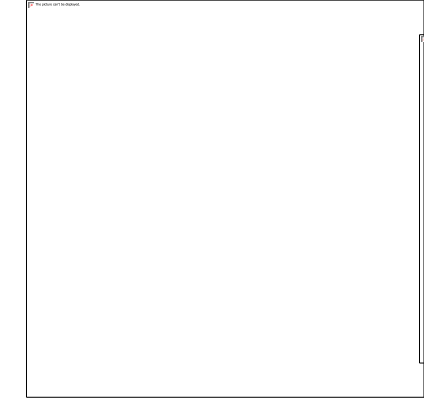
Recruitment and Selection of Regional Project Manager

Project Highlights



2021-2022

- **Joint Training and Capacity Building through CReW+ Academy:** on “Reuse of treated domestic effluent” (Block 2) and “Methods to develop the blue economy and the good use of wastewater” (Block 3).
- **Integrated Water and Wastewater Management (IWWM) workshops:** for young persons and the media, facilitated by GEF CReW+ project partner GWP-C.
- **Implementation of Regional Nutrients Pollution Reduction Strategy:** National Nutrient Reduction Strategies in Jamaica and Barbados – Building on SOCAR
- **Virtual regional workshops organized to identify barriers to ratification of the LBS Protocol:** Spanish and English-speaking Non-Contracting countries



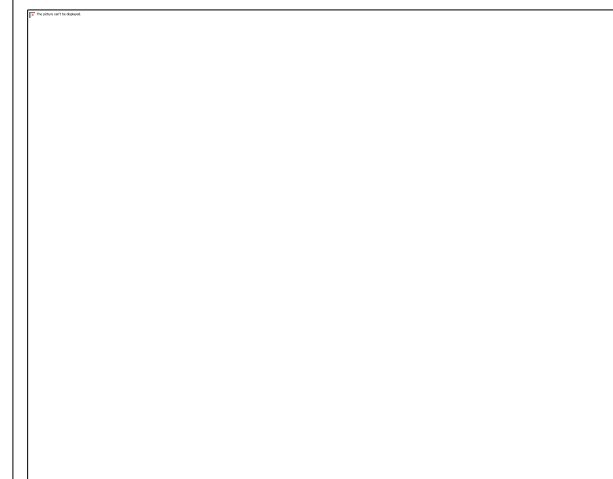
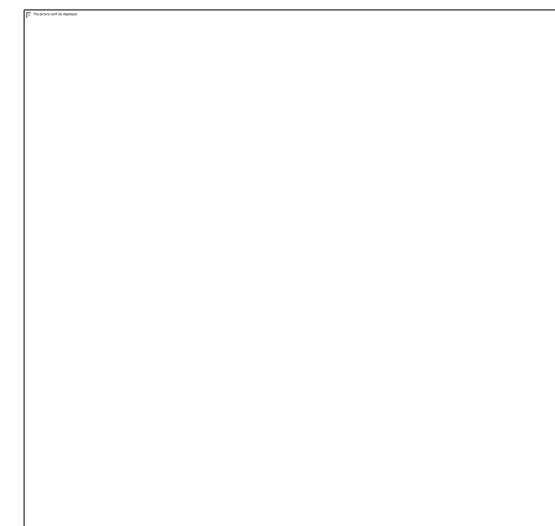
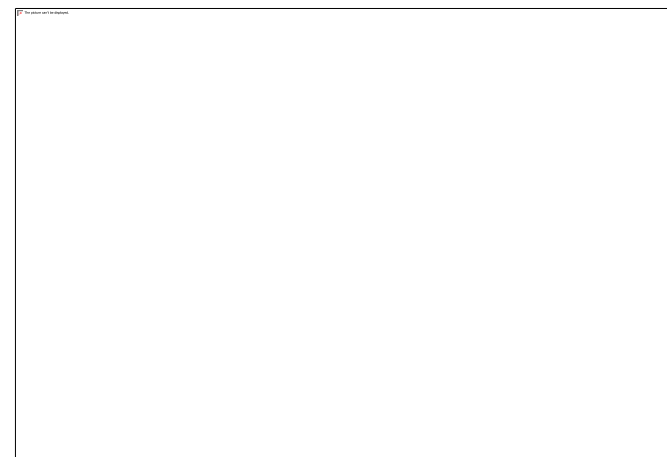
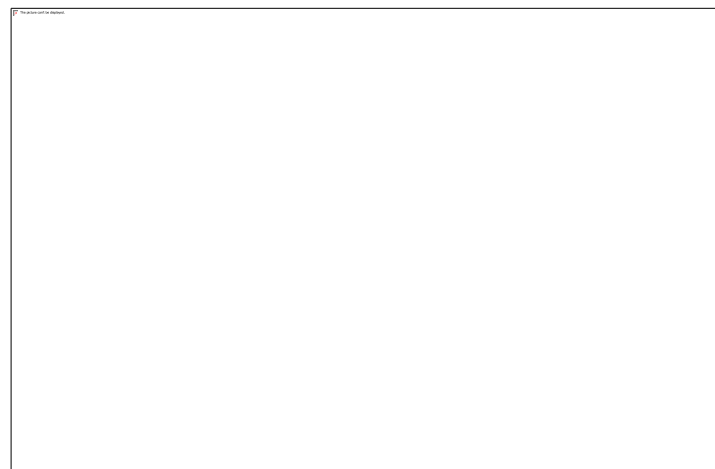
2023

- **Training series for wastewater operators of four (4) Caribbean utilities:** through CAWASA in collaboration with Operators Without Borders (OWB)
- **Regional Data & Information Management Platform on Marine Biodiversity and Marine Pollution:** to include information relating to wastewater effluent pollution with GRID-Geneva and co-financing from UNEP.
- **National water Information Management Systems (WIMS) initiated in 6 GEF-CReW+ beneficiary countries:** to facilitate access to and the dissemination of water-related data.
- **LBS RACs - IMA and CIMAB:** Develop technical guidelines on the classification of domestic wastewater, management of freshwater resources, marine plastics reduction and nutrient reduction strategies

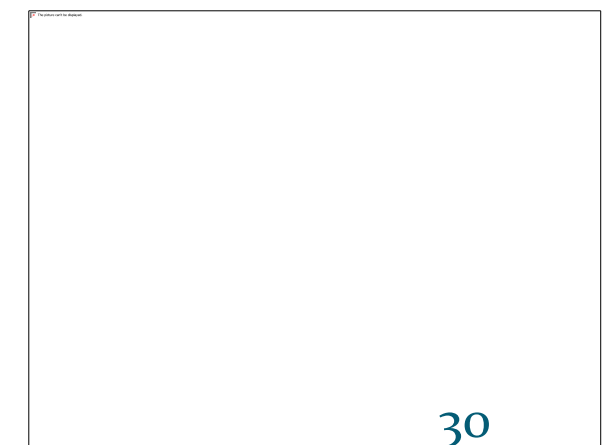
Institute Of Marine Affairs



- Implementation of an **Ecosystem- Based Management (EBM)** approach under the CLME+ Project for **addressing the Impacts of Land-based Sources of Pollutants on Critical Coastal Habitats** such as Mangrove Swamp in **NBSLME (SSFA -70kUSD)** .



- Supported the finalization of the Regional Nutrients Reduction Strategy through reviews and infographic creation (SSFA-50KUSD)
- Through funding from the ACP MEAs, SIDA Grant, GEF CReW+ projects, a preliminary report desktop to support the develop guidelines for the classification of waters under the LBS Protocol. (current SSFA-158K)
- Caribbean Sea Oil Spill Satellite Monitoring: Collaboration with NOAA on Oil Spill Tracking in the Americas (COSTA) programme.
- Memorandum of Agreement between SAB NOAA and MEEI /Government of Trinidad and Tobago in oil spill monitoring for Trinidad and Tobago.



FORTALECIMIENTO INSTITUCIONAL

Medidor de pH y conductividad de mesa
(con compensación de temperatura).

Multiparámetro de campo (Multiline,
OD, S‰, oCT, pH/redox, conductividad

Salinómetro digital

2.- Crear capacidades para la ejecución de proyectos sobre **contaminantes emergentes** de mayor prioridad para la RGC y fortalecer las ya existentes para la evaluación de la contaminación por **nutrientes**.

Actividad 1.- Apoyar a RAC IMA en el desarrollo de un conjunto de directrices para la clasificación de aguas marino-costeras según el Protocolo FTCM

Actividad 2.- Apoyar a RAC IMA en la elaboración de estándares y criterios regionales para nitrógeno (N) y fósforo (P) en cuanto a las cargas contaminantes de origen industrial y doméstico.

ACP MEAs 3



Actividad 3.- Apoyar a RAC IMA en facilitar un Taller Regional de Índice de Eutrofización Costera (ICEP, por sus siglas en inglés) y en florecimiento de algas nocivas.

Julio 2022

(Encuentro de trabajo entre los RACs)

1 (Prevención y reducción de la Contaminación marina)

2 (Contaminantes emergentes y nutrientes)

4 (Cooperación Regional)

5 (Gestión del Conocimiento)

2021-2022 Summary of Budget Expenditure (USD)

Source of Funds	Budget (US\$)	Expenditure (US\$)
UNHSTF Project*	239,801	184,882
GEF IWEco	2,002,260.64	1,317,455
GEF CReW+	5,043,000	1,516,478
ACP MEAs III	788,463	667,170
GPNM**	45,000	45,000
SIDA 2021 Grant ***	105,000	105,000
GRAND TOTAL	8,223,525	7,867,151

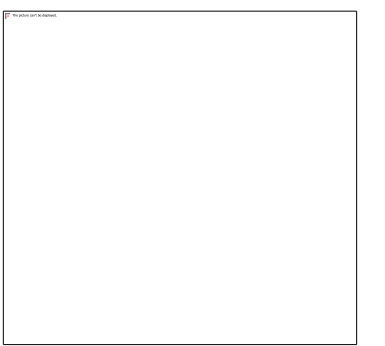
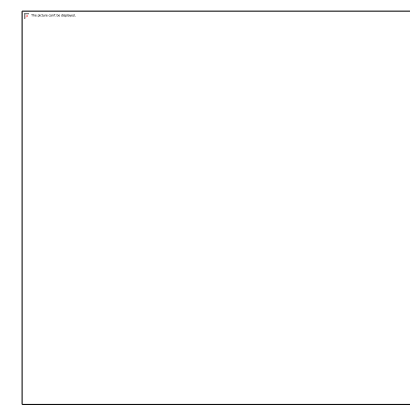
*UNHSTF 2021 recorded budget and expenditure

** To conduct an Economic Valuation Pilot Project that will involve a study on the assessment of the economic benefits of sustainable nitrogen management in freshwater, marine and coastal ecosystems

*** To support the implementation of activities under key thematic areas of work of the Cartagena Convention.

ELEMENTS OF POSSIBLE DECISIONS FOR THE LBS COP

6



1. Provide Guidance relating to Nutrient-related activities including the development of an updated State of Marine Pollution Report and verifying outputs from LBS RACs relating to Nutrients.
2. Endorse REMARCO, as an informal network of regional laboratories, to be a member of the Regional Activity Network and encourage continued cooperation with INVEMAR and IAEA.
3. Support the continued expansion of the Early Detection System and use of Satellite and Remote Sensing including training by NOAA through the IMA for the detection and monitoring of Marine pollutants.
4. Encourage active engagement of Contracting Parties in the ongoing negotiations on the new UNEA 5/14 Global Plastics Agreement and urge the Secretariat to support such participation.
5. Endorse LBS STAC 6 Recommendations with changes as appropriate
6. Encourage increased ratification and implementation of the LBS Protocol obligations

ELEMENTS OF POSSIBLE DECISIONS FOR THE LBS COP

6

7. Adoption of the LBS Protocol work plan including priority unfunded projects.
8. Urge continued cooperation with other Regional Seas Programmes in particular OSPAR Commission and Barcelona Convention.
9. Recommend to Cartagena Convention COP on approaches for further development of Blue Economy approaches given links to Marine Pollution, Biodiversity and Innovative Conservation Finance.
10. Recommend to Cartagena Convention COP Decision on the continued integration of AMEP and SPAW Sub-programmes in the 2023-2024 biennium, integration of thematic linkages such as between Eutrophication and Sargassum as well as the impacts of Nutrient Pollution on Marine Biodiversity and RAC/RAN coordination.
11. Recommend to the Cartagena COP to make Decisions relating to any new mandates for the RACs, RAN or OEWG including updating the RAC/RAN Guidelines

United Nations Environment Programme Cartagena Convention Secretariat

Protecting Our Caribbean Sea. Sustaining Our Future

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Sustaining Our Future

THANK YOU/GRACIAS/MERCI

United Nations Environment Programme
Caribbean Environment Programme and
Cartagena Convention Secretariat

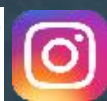
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UNEPCartagenaConvention



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