

TC ABSTRACT

I. Basic project data

▪ Country/Region:	Regional
▪ TC Name:	Knowledge Consolidation and Investment Innovation in Disaster and Climate-Resilient Coastal Zone Management
▪ TC Number:	RG-T2675
▪ Team Leader/Members:	Team Leader: Cassandra Rogers (RND/CBA); Alternate Team Leader: Michele Lemay (INE/RND); Sybille Nuenninghoff (RND/CBL); Maria Claudia Perazza (INE/RND), Onil Banerjee (INE/RND), Kelsey Schueler (INE/RND); Roy Parahoo (FMP/CBA); Denise Ann Salabie (FMP/CBA); Shelly Pile (CCB/CBA); Lisa Sofia Restrepo (INE/RND); and Yolanda Valle (INE/RND)
▪ Indicate if: Operational Support, Client Support, or Research & Dissemination.	Research and Dissemination
▪ If Operational Support TC, give number and name of Operation Supported by the TC:	
▪ Reference to Request: (IDB docs #)	N/A
▪ Date of TC Abstract:	June 2015
▪ Beneficiary:	Countries of Latin America and the Caribbean
▪ Executing Agency and contact name:	Inter-American Development Bank (IDB)
▪ IDB Funding Requested:	US\$800,000
▪ Local counterpart funding, if any:	N/A
▪ Disbursement period (which includes execution period):	30 months
▪ Required start date:	August 1, 2015
▪ Types of consultants (firm or individual consultants):	Firms and individual consultants
▪ Prepared by Unit:	INE/RND
▪ Unit of Disbursement Responsibility:	CCB/CBA
▪ Included in Country Strategy (y/n);	Y
▪ TC included in CPD (y/n):	N
▪ GCI-9 Sector Priority:	(i) Supporting development in small and vulnerable countries and (ii) climate change, sustainable (including renewable) energy, and environmental sustainability

II. Objective and Justification

- 2.1. The general objective of this Technical Cooperation (TC) is to catalyze sustainable, replicable and innovative investments in disaster and climate-resilient Integrated Coastal Zone Management (ICZM). The specific objectives are to: (i) consolidate and

disseminate Inter-American Development Bank's (IDB) successful experience and reinforce empirical evidence in supporting the sustainable use of coastal and marine resources in the Caribbean through ICZM; and building on this, (ii) create new tools to support ICZM investment innovation and secure the Bank's long-term leadership in the field, emphasizing natural capital approaches, disaster and climate resiliency, ecosystem-based planning, technological advances, broad partnerships and dissemination.

- 2.2. For over three decades, the IDB has been at the forefront of policy development and public sector investments in ICZM in the Caribbean. For example, through Bank support and collaboration since 1982, coastal management in Barbados has undergone a significant evolution that has contributed to a thriving tourism industry that is the core of the country's economy. Through support provided by four investment programs, technical assistance and knowledge products, the Government of Barbados has established the legal and institutional framework needed to protect its coast; acquired the technical know-how to assess, monitor and manage complex physical processes that shape its shoreline; and implemented coastal infrastructure works that have successfully controlled coastal erosion, reduced vulnerability to storms, stabilized beaches, and improved public coastal access. These interventions have had significant impact and provided tangible economic and social benefits. Barbados now has one of the most comprehensive ICZM programs in developing countries and is a regionally recognized best practice model.
- 2.3. Indeed, this ICZM success model has attracted interest from several member countries in Latin America and the Caribbean (LAC) for Bank support in the implementation of permanent, sustainable, innovative and state-of-the art solutions to coastal management. In response, new developments, ranging from the economic valuation of ecosystem services, prioritization of these services for ecosystem-based risk reduction and Climate Change Adaptation (CCA) e.g. coral reef restoration to protect beaches, green/soft coastal engineering, real-time ocean and coastal monitoring and community science for CCA, are being piloted in the Region. Such initiatives are being implemented in Trinidad and Tobago¹, Belize², Jamaica as well as The Bahamas³ where disaster and climate-resilient ICZM combined with a pilot ecosystem-based development plan for Andros Island, the first of its kind in the Caribbean, are being developed as a comprehensive approach to national economic development planning. The latter approach has the potential to yield new investment operations for small island and low-lying developing states⁴.
- 2.4. The groundbreaking experience in ICZM in the Caribbean has wide ranging applications and potential replicability throughout LAC. The interventions described above are designed to address increasing threats to coastal development and economic growth, such as urban migration, use conflicts, over exploitation, natural disasters, climate change and sea level rise. The interventions also recognize emerging trends in ICZM, which focus on resilience and ecosystems-based

¹ Feasibility Studies For A Risk-Resilient Coastal Zone Management Program (ATN/OC-13961-TT).

² Sustainable Tourism Program II (BL-L1020, in preparation) and Caribbean Climate Smart Islands Program (ATN/OC-14811-RG).

³ Feasibility Studies For A Climate Risk Resilient Coastal Zone Management Program (ATN/OC-14251-BH; ATN/OC-14250-BH) and Ecosystem-based Development for Andros Island (ATN/OC-14719-BH).

⁴ Program to Support the Sustainable Development of the Department of San Andrés, Providencia, and Santa Catalina Archipelago (3104/OC-CO).

approaches, a multifunctional approach that promotes (i) CCA and disaster risk management; and (ii) the provisioning of ecosystem service co-benefits, such as the ability of mangroves to both mitigate climate change as a carbon sink and stabilize coastlines.

- 2.5. The technical knowledge, lessons learned and successes of the Bank's experience in ICZM in the Caribbean have not to date been documented and published in a comprehensive or systematic manner. In order for the Bank to highlight and maintain its leadership role, competitive edge and to keep pace with the latest science and innovation in this dynamic field; it is prudent and timely to: (i) document the Bank's contribution to date and share the relevant technical knowledge, including empirical evidence in ICZM; and (ii) develop and promote the use of new instruments that may catalyze innovative investment in LAC through the application of emerging approaches in ICZM.
- 2.6. The proposed TC will contribute to the following GCI-9 lending program priority targets: (i) supporting development in small and vulnerable countries (GN-2616-2); (ii) climate change, sustainable (including renewable) energy, and environmental sustainability; (iii) the IDB's Integrated Strategy for CCA and Mitigation and Sustainable Renewable Energy (GN-2609-1) and its Action Plan (2012-2015 GN-2609-3), specifically its strategic line to strengthen institutional capacity through the economic assessment of climate change vulnerabilities to the Region and benefits of alternative CCA measures⁵; and (iv) the Biodiversity and Ecosystem Services (BIO) program.

III. Description of activities

- 3.1 Activities described in the following table are fully consistent with the IDB's BIO Program and Multi-Donor Disaster Prevention Fund (MDP), specifically the objectives to (i) strengthen and foster environmental governance (BIO)⁶; and (ii) support for environmental management and land use planning for vulnerability reduction (MDP).

Table 1. Description of Activities

ACTIVITY	DESCRIPTION	EXPECTED OUTPUTS	EXPECTED RESULTS
COMPONENT 1: ICZM Knowledge Consolidation and Dissemination			
1.1 Technical studies and dissemination	(a) Preparation of an IDB Technical Note and a White Paper on case studies, best practices, lessons learned and future directions for disaster and climate-resilient ICZM in the Caribbean. Includes support for background research and analysis, peer review, design and production and launching workshop	ICZM Technical Note, White Paper on ICZM	Increased knowledge and capacity to respond to coastal vulnerability including climate change
	(b) Supplementary data collection (tourism surveys) for Impact Evaluation and Ecosystem Services Supply Assessment Study to estimate the benefits tourists derive from the Barbados coastal infrastructure investments ⁷	Tourism surveys of three beaches	
	(c) Supplementary support for country participation in Regional Workshop and Policy Dialogue on	International workshop	

⁵ <http://idbdocs.iadb.org/wsdocs/getDocument.aspx?DOCNUM=36938123>

⁶ <http://idbdocs.iadb.org/wsdocs/getDocument.aspx?DOCNUM=37250949>

⁷ Capacity Building for Ecosystem Services Valuation and ICZM Best Practices Dissemination (ATN/OC-13923-BA)

	disaster and climate-resilient ICZM (to be implemented under BA-T1025)		
	(d) Organization of a high-level flagship event on disaster and climate-resilient ICZM, including the production of high-impact multimedia materials	Flagship event, dissemination materials	
COMPONENT 2: Support for Sustainable, Replicable and Innovative ICZM Investment			
2.1 Development and Promotion of new instruments for investment	(a) Support for development of Strategic Implementation Plan / Phase One Implementation of the Caribbean Coastal Capital Center of Excellence (CCCCE) (designed under RG-T2489)	CCCCE Strategic Implementation Plan	
	(b) Development of an ICZM index to measure and monitor ICZM performance of individual countries	National ICZM Index	
	(c) Proposal for Incentive Mechanism for disaster and climate-resilient ICZM investment across member countries	Incentive Mechanism	
Component 3: Project Coordination			
3.1 Technical and Administrative support	Contracting of a research fellow and administrative assistant to support TC implementation	1 research fellow 1 administrative assistant	
	Support (travel and accommodation) for IDB staff to participate/present technical papers at ICZM meetings and conferences	Presentations	

IV. Budget

4.1 The total budget for this TC has been estimated at US\$800,000 as shown in the following table.

Table 2. Indicative Budget

Activity/ Component	Description	IDB Funding US\$	Total Funding US\$	MDP	BIO
1.1 Technical studies and dissemination	Preparation of Technical Note and White Paper on disaster and climate-resilient ICZM	70,000	360,000	35,000	35,000
	Tourist Surveys	40,000		40,000	0
	Support for International Workshop and Policy	75,000		35,000	40,000
	Flagship event and materials	175,000		65,000	110,000
2.1 Development and Promotion of new instruments for investment	Strategic Implementation Plan for the CCCCE	100,000	196,000	50,000	50,000
	Development of ICZM Index	50,000		30,000	20,000
	Incentive Mechanism Proposal	46,000		23,000	23,000
3.1 Technical and administrative support	Research fellow	144,000	244,000	97,000	47,000
	IDB Staff Travel	50,000		0	50,000
	Administrative assistant	50,000		25,000	25,000
TOTAL		800,000	800,000	400,000	400,000

V. Executing agency and execution structure

5.1 The Bank will execute the TC and will be responsible for the administration of the procurement of the consulting services. The Bank's Country Office in Barbados will monitor and supervise the TC under the overall guidance of the team leader and with the technical support of INE/RND.

VI. Project Risks and issues

- 6.1 There is a risk that key stakeholders will not receive or engage with the consolidated knowledge produced by this research. This is mitigated by a robust dissemination strategy.

VII. Environmental and Social Classification

- 7.1 It is not anticipated that the activities to be financed under this TC will have negative direct or indirect social or environmental effects. According to the Bank's Safeguards Screening Toolkit, this operation is classified with "C", as: (i) there are no environmental or social risks; and (ii) there is direct contribution to solve environmental issues.

ORIGINAL FIRMADO

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