

# WATER CHALLENGES AND SOLUTIONS FOR THE CARIBBEAN

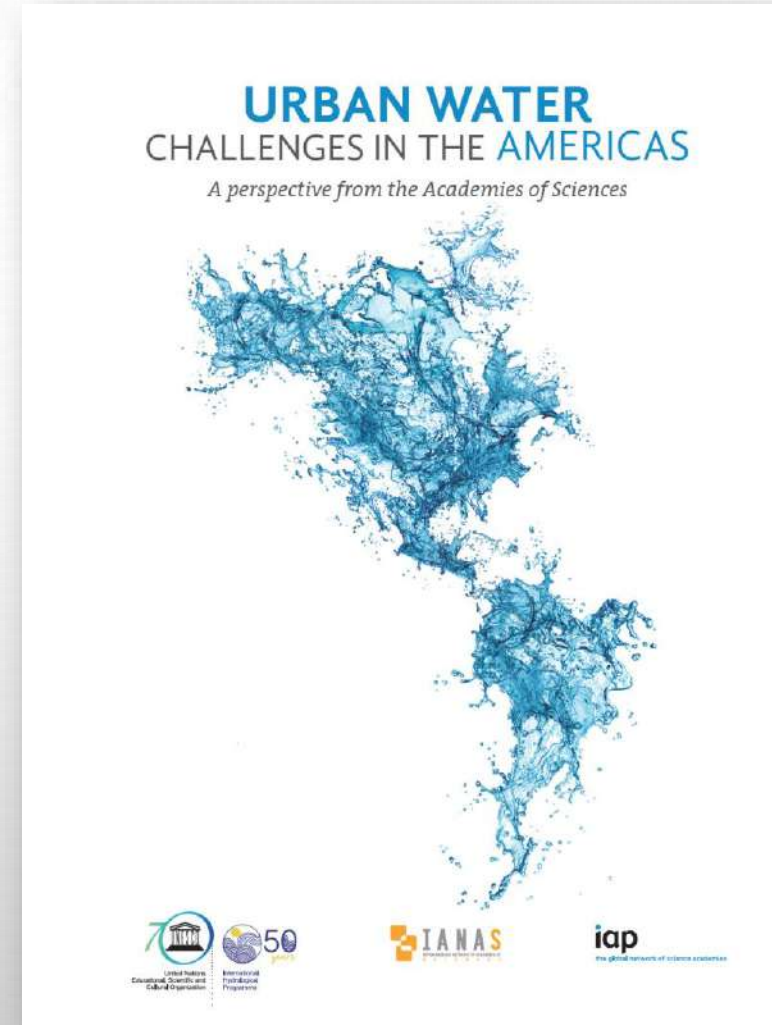
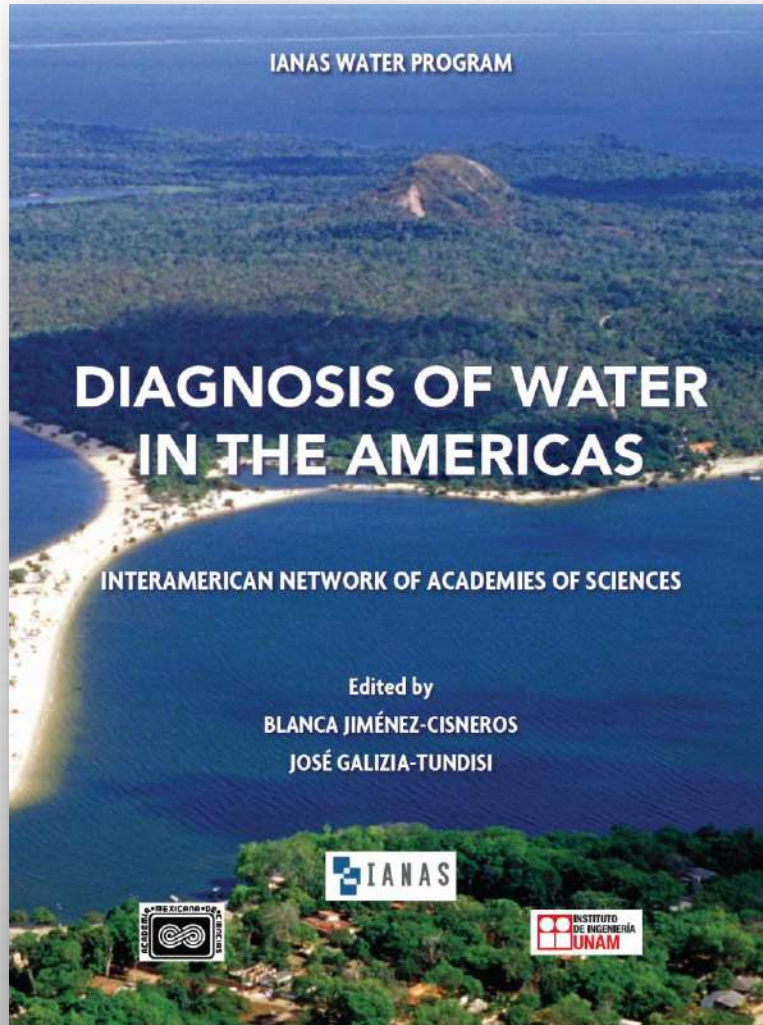


Alyce Henson via Getty Images

# RATIONALE

Title	Water Challenges and Solutions for the Caribbean
<b>Summary</b>	<p>This book provides in one book a <b>comprehensive review</b> of the current challenges and issues Caribbean countries face in freshwater management and the provisioning of drinking water in adequate quantities and quality to the peoples living in this region of the world.</p> <p>This publication will also focus on <b>potential solutions</b> to address those challenges in line with the Sustainable Development Goals</p>
<b>Why</b>	<p>Such book much needed since no such document currently exists which highlights these challenges and solutions and how they are being met for the Caribbean region</p>

# CURRENT IANAS BOOKS ON WATER



# WHO IS COVERED?





# PROJECT LOGISTICS

<b>Lead Applicant</b>	<b>Caribbean Academy of Sciences (CAS)</b>	
<b>Project Coordinators</b>	<b>Dr. Mark Wuddivira</b> <a href="mailto:mark.wuddivira@sta.uwi.edu">mark.wuddivira@sta.uwi.edu</a> <b>Professor Martin Forde</b> <a href="mailto:martinforde@mac.com">martinforde@mac.com</a>	
<b>Cooperating Organizations</b>	<b>CAS</b>	Winston Mellowes
	<b>IANAS</b>	Adriana De La Cruz Molina Katherine Vammen
	<b>Nicaraguan Academy of Sciences</b>	Katherine Vammen

# EDITORIAL COMMITTEE

Name	Organization
Katherine Vammen	IANAS
Miguel Doria	UNESCO IHP
Mark Wuddivira	CAS
Martin Forde	IANAS-CAS
Adriana de la Cruz	IANAS

# CARIBBEAN COUNTRIES

- ANGUILLA
- ANTIGUA AND BARBUDA
- ARUBA
- BAHAMAS
- BARBADOS
- BELIZE
- BERMUDA
- BRITISH VIRGIN ISLANDS
- CAYMAN ISLANDS
- CUBA

- CAYMAN ISLANDS
- CUBA
- CURAÇAO
- DOMINICA
- DOMINICAN REPUBLIC
- GRENADA
- GUYANA
- HAITI
- JAMAICA
- MONTSERRAT

- SAINT LUCIA
- SINT MARTEEN
- ST. KITTS AND NEVIS
- ST. VINCENT AND THE GRENADINES
- SURINAME
- TRINIDAD & TOBAGO
- TURKS AND CAICOS ISLANDS





# STRUCTURE OF BOOK

- EXECUTIVE SUMMARY
  - CARIBBEAN REGIONAL BACKGROUND
  - WATER SOLUTIONS FOR SMALL ISLANDS
  - GENDER ISSUES IN THE MANAGEMENT OF WATER
  - INDIVIDUAL COUNTRY CHAPTERS
  - REGIONAL SUMMARY OF CHALLENGES AND SOLUTIONS
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# INDIVIDUAL COUNTRY CHAPTER FORMAT

- COUNTRY PHYSIOGRAPHY AND CLIMATE
- WATER SOURCES/RESOURCES
- WATER MANAGEMENT TECHNIQUES AND ISSUES IN THE WATER SECTOR
- INSTITUTIONAL ROLE IN TRAINING AND RESEARCH
- IMPACT OF CLIMATE CHANGE AND VARIABILITY ON WATER RESOURCES AND WATER PROVISIONING SYSTEM
- ADEQUACY OF CURRENT WATER PROVISIONING SYSTEM TO MEET CURRENT AND FUTURE DEMANDS

# INDIVIDUAL COUNTRY CHAPTER FORMAT (CONT'D)

- ADEQUACY OF CURRENT WATER PROVISIONING SYSTEM TO ENSURE A HIGH STANDARD OF WATER QUALITY
- CHALLENGES:
  - ENVIRONMENTAL PROBLEMS, SUPPLY DEGRADATION, LEGISLATION ISSUES, POLLUTION PROBLEMS, FLOODING, DROUGHT, SALINIZATION, MONITORING ISSUES, POLITICAL ISSUES, PERSONNEL ISSUES, FUNDING, RESEARCH AGENDA
- HEALTH CONSIDERATIONS
- POLICY CONSIDERATION
- CURRENT AND PLANNED INTERVENTIONS TO DEAL WITH EXISTING CHALLENGES/ISSUES
- EXAMPLES OF BOTH SUCCESSFUL AND UNSUCCESSFUL INTERVENTIONS

# OTHER KEY WATER TOPICS

- GROUNDWATER (QUALITY AND QUANTITY)
- MANAGEMENT OF RECHARGE
- LACK OF GOVERNANCE FOR MANAGEMENT OF GROUNDWATER
- IMPROVING GROUNDWATER USE
- IRRIGATION EFFICIENCY
- WATER AND ENERGY
- WATER HARVESTING
- COASTAL MANAGEMENT, PROTECTION OF WETLANDS AND FOREST RESERVES
- SALINIZATION DUE TO RISE IN SEA LEVEL
- REUSE OF WATER
- MONITORING OF SURFACE WATERS, RIVERS AND LAKES.
- MONITORING OF WATER QUALITY

# OTHER KEY WATER TOPICS (CONT'D)

- DESALINIZATION
- WATER RELATED TO FOOD SECURITY
- EXTREME HYDROLOGICAL EVENTS (DROUGHTS AND FLOODS) AND IMPACTS ON WATER QUANTITY AND QUALITY
- WOMEN AND WATER IN THE CARIBBEAN
- WATER AND FORESTS
- SEDIMENTATION TO WATER BODIES.
- RAINWATER HARVESTING, CISTERNS

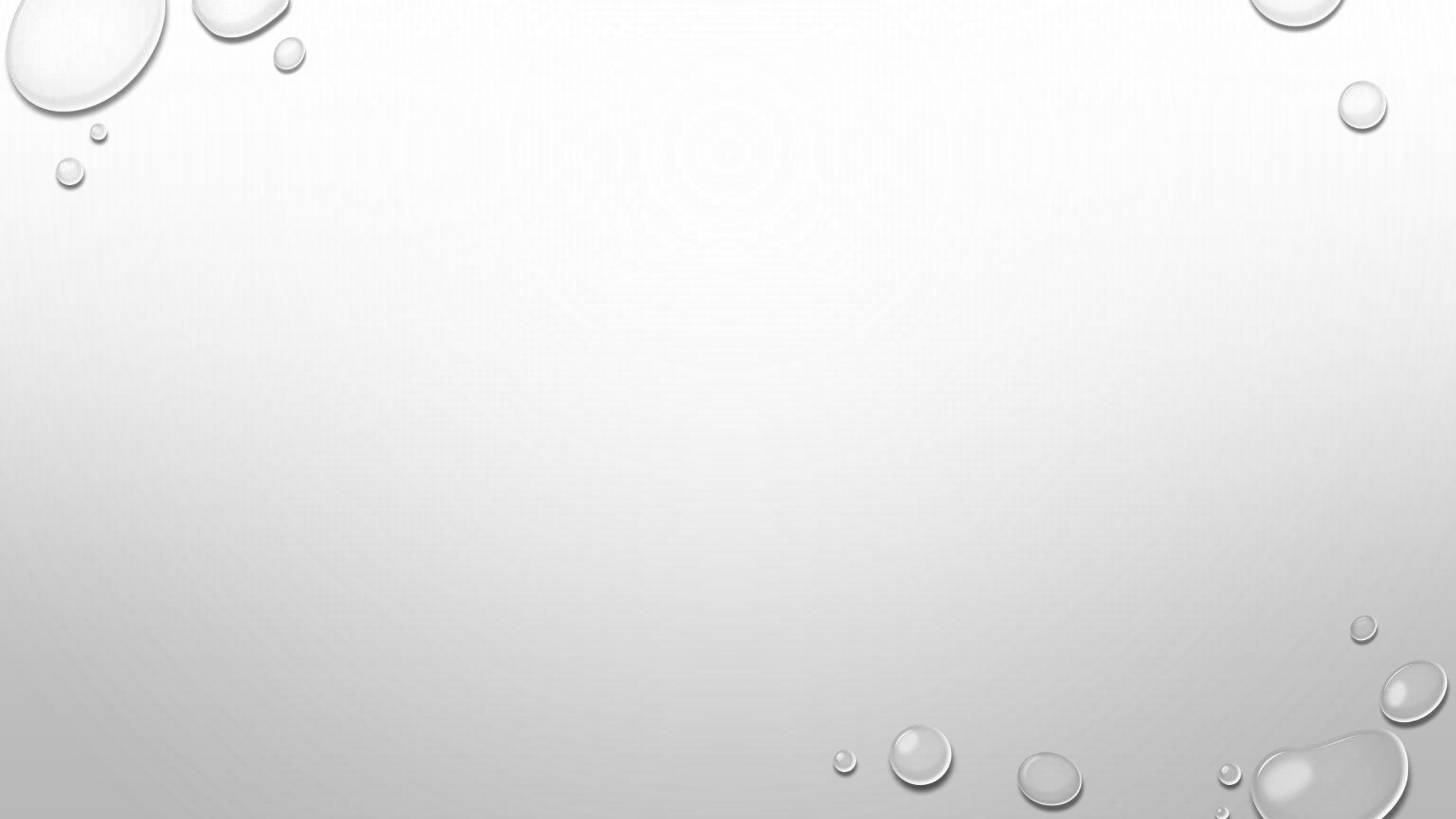
# BOOK AUDIENCE

- PRIMARILY TARGETED TOWARDS REGIONAL CARIBBEAN GOVERNMENTS, REGIONAL POLICY-MAKERS, AND THOSE WITH AN ACTIVE INTEREST IN THE PROVISIONING OF POTABLE WATER SYSTEMS TO THE PEOPLES LIVING IN THIS REGION OF THE WORLD.



# CARIBBEAN WATERS







# BUDGET

Description	Estimated cost (USD)	Amount requested from IAP (USD)
DSA (daily subsistence allowance) per person and total	USD 250 per night × 35 participants × 2 nights = USD 17,500.00	USD 17,500.00
Local transportation	USD 1000.00	USD 1000.00
Staff costs ***	USD 250 per diem × 6 staff × 2 nights = USD 3000.00	USD 3000.00
Meeting material/stationery	USD 1000.00	USD 1000.00
Official reception - catering	USD 2000.00	USD 2000.00
Rent of meeting room	USD 500.00	USD 500.00
Field-trip	-	-
<b>TOTAL</b>	<b>USD 25,000.00</b>	<b>USD 25,000.00</b>