

## Integrated Water Resources Management (IWRM) Projects and Initiatives in the Caribbean

**Title:** Adoption Measures to Climate Change Impacts on Coastal Aquifer Systems in the Caribbean

**Organisation:** Caribbean Community Climate Change Centre (CCCCC)

**Aims and Objectives:**

1. To develop and apply a Groundwater Management Model to assess and manage the selected aquifer systems at the Erin Aquifer in Trinidad and Tobago and Rio Cobre Basin in Jamaica on a continuous basis. This was later changed to the Yallahs Aquifer.
2. To make recommendations on best practices for the protection and development of those sites and other similar aquifer systems in the project countries and within the Region using the opportunity to build capacity.

**Duration:** Start Year: 2009 Completion Year: 2011

**Additional Comments:** Implementation Partnership Agreement (IPA) signed September 18, 2008

**Estimated Cost (USD):** \$174,000

**Funding Source:** United Nations Educational, Scientific and Cultural Organisation International Hydrological Programme (UNESCO-IHP) and the Italian Ministry for Environment and Territory (IMET)

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**Key Words:** Aquifers; Groundwater; Climate Change; Adaptation; Sustainability

**Geographic Coverage:** Jamaica; Trinidad and Tobago

**Sectoral Focus:** Water Resources Management; Flood and Coastal Management

**Target Beneficiaries:** Policy Makers; Water and Environmental Management Stakeholders; and Technical Staff in Water Management Agencies

**Outputs:**

The main results of the project were identified as:

1. Quantitative evaluation of climate change and human-induced effects on the groundwater sustainability of the two pilot sites
2. Suitable mitigation and adaptation measures for groundwater resources management
3. Evaluation of hydrological adaptability measures in terms of replicability, sustainability, impacts on both global and regional climate change and equity in access to groundwater, both in quantitative and qualitative terms by referring to growth rates for economic sectors and to well-being indicators about health, poverty, et cetera, for social segments
4. Training and capacity building of stakeholders and institutions in the regions studied
5. Recommendations based on project results to decision and policy makers and dissemination of project results (e.g., reports, publications, web pages, internet conferences)

**Project Links and References:**

<http://caribbeanclimate.bz/closed-projects/2009-2011-coastal-aquifer-systems-unesco-ihp.html>

**Impacts:**

Information not available

**Sustainability:**

Information not available

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## Global Water Partnership-Caribbean IWRM Projects and Initiatives Database

### **Lessons for the Future:**

One observation made during the final workshop held in Trinidad and Tobago in December 2011 was that all the stakeholders were not engaged from the beginning of the project. In fact it was during that workshop that certain stakeholders who were present, pointed out that they had the data and information needed by the scientists/modellers, but no one had made contact with them.

### **Opportunities Arising from the Project:**

Additional work could be done by testing/applying the models to aquifers in other countries. This might contribute to improvement of the models.

### **Further Comments:**

Information not available