




**UNESCO's support for Integrated Water Resource Management in the Pacific**  
25<sup>th</sup> – 30<sup>th</sup> July 2011

**Third Meeting of the Regional Project Steering Committee for the SOPAC/UNDP/UNEP/GEF Project: Implementing Sustainable Water Resource Management in Pacific Island Countries**

Kevin Petrini, Interim Natural Sciences Programme Specialist






**UNESCO's water family**

- UNESCO – IHP: Secretary for International Hydrological Programme
- UNESCO – WWAP: World Water Assessment Programme
- UNESCO – IHE: Institute for Water Education
- UNESCO Water Chairs


**Field Office in Apia:** Promoting sustainable management and conservation of freshwater, terrestrial resources and biodiversity

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**Selected past work with Water**

- Support for the IWRM Nadi Basin Flood Mitigation, Targeted scientific & technical report, Water Quality & Environmental Assessment, 2010
- Support for Niue Groundwater Resource Monitoring and Management Programme, 2005 - 2007
- Support for Water Resources Management, Aitutaki, Cook Islands, 2006
- Support for Groundwater recharge in low coral islands Bonriki, South Tarawa, Republic of Kiribati, Issues, traditions and conflicts in groundwater use and management, 1999
- Support for Groundwater Pollution Study Pangai-Hihifo, Lifuka, Kingdom of Tonga, 1998



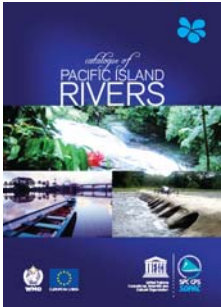
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**Current support for IWRM**

Support for SPC/SOPAC's development of a **Catalogue of Rivers for the Pacific** including Palau, FSM, PNG, Solomon Islands, Vanuatu, Fiji and Samoa

**Youth Visioning** – Catholic Youth group from Kiribati are documenting the effects of Climate Change on the outer atolls and producing a short video to share with the greater community



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**Possibilities for Collaboration**

- Water-related Climate Change Adaptation and Mitigation Education and Research
- Education for Sustainable Development (ESD) materials related to drought, Disaster Risk Reduction and Climate Change
- Assessment of Pacific science policy needs and priorities
- Man and the Biosphere (MAB) – Enhancing and developing MAB reserves for learning laboratories – supporting Global Environmental Benefits
- Management of both groundwater and aquifer systems



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**HELP**  
Hydrology for the Environment, Life and Policy

**GOAL:** to help scientists and stakeholders break through the traditional paradigm lock that separates them from integrated solutions

- Deliver social, economic and environmental benefits to stakeholders through research towards the sustainable and appropriate use of water.
- Deploy hydrological science in support of improved integrated catchment management.
- Improve the complex relationships between hydrological processes, water resources management, ecology, socio-economics and policy-making.

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 Possibilities


**Global Chemistry Experiment "Water: A Chemical Solution"**

**The Experiments**

1. pH of the Planet: Students collect data measuring the pH of water using indicator solutions.
2. Salty Waters: Students explore the salinity of their local water.
3. Solar Still Challenge: Students will construct a solar still from household materials and experiment with its use to purify water.
4. Water: No Dirt, No Germs: Students will learn how chemistry is used to help provide safe drinking water.

Each activity includes a teacher's guide, a list of necessary material for carrying out the activities and explicit instructions on how to carry out the activities.

<http://water.chemistry2011.org/web/iyc>  
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**International Year of  
CHEMISTRY  
2011**

