

[Home](#)[About the Centre](#)[Research](#)[Training](#)[People](#)[Publications](#)[Events](#)[Contact us](#)

Research Identity

Calling upon more than 30 water scientists based at the University of East Anglia, we offer a considerable array of skills. Although we cover most topics associated with water, we identify ourselves particularly through key expertise in:

- climate change and variability; adaptation and vulnerability;
- transboundary water interaction: cooperation and conflict;
- power, hegemony and hydro-hegemony;
- irrigation performance and policy;
- river basin management;
- water diplomacy; and
- water allocation, and re-allocation.

Consultancy Research

We offer a range of consultancy services via International Development UEA. We go beyond studying phenomena to bring about positive change by means of engagement through extensive outreach, commissioned training, action research and policy formation.

Contact [Declan Conway](#) and, at International Development UEA, [Katharine Trott](#) in the first instance or [Jane Bartlett](#) or [Adrian Martin](#)

Research Projects (see full list below)

Water and Climate Change	Transboundary Water Interaction	Integrated Catchment Management	Irrigation and Livelihoods
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Environmental and Climate Change

[ADMIT: Harmonising Adaptation and Mitigation for agriculture and water in China](#)

The ADMIT project is researching sustainable agriculture in China with an overall objective of estimating the 'carbon cost' of future agricultural water use responses for adaptation to climate change. The project is a joint collaboration between China and UK and forms part of the [China-UK Sustainable Agriculture Innovation Network \(SAIN\)](#). The project runs from Jan 2010 to Feb 2012 with [Declan Conway](#) as project manager and [Sabrina Rothausen](#) as main researcher. Download the [ADMIT project brochure](#) (pdf)

[Climate change adaptation in international river basins in Africa](#)

This project, led by [Marisa Goulden](#) and [Declan Conway](#), looked at adaptation to climate variability and climate change in internationally shared river basins in Africa. Case study research was conducted in the River Nile Basin in 2007 and 2008. Funding: Tyndall Centre for Climate Change Research, September 2006 to March 2009.

[Water Security and Climate Change Adaptation in the River Nile Basin](#)

This four-year research programme, funded by the Tyndall Centre and led by [Declan Conway](#) and [Marisa Goulden](#), examines the role of conflict and cooperation between the ten countries that share the River Nile Basin in adapting to the impacts of climate extremes including floods and droughts and the possible impacts of future climate change. The latest research on this project examines perceptions of experts in three of the Nile Basin countries (Egypt, Ethiopia and Uganda) of the potential impacts of climate change and changing water sharing and water use patterns in the basin on water security, human well-being and adaptation needs.

[The Water-Food-Climate Nexus in the Middle East and North Africa](#)

This study explores the potential for Water Demand Management (WDM) to respond to climate-induced pressures on water and food availability throughout the Middle East and North Africa region. It considers the interdependency of the water-food-climate nexus through extensive review of the latest climate projections, and current state of water resources availability and food security for Morocco, Algeria, Tunisia, Egypt, Lebanon, Syria, Palestine, Jordan and Yemen. Commissioned by the [International Development Research Council](#)



Research into practice

Centre staff offer wide ranging advisory and research services to external agencies. Recent funders and clients include:

- the African Development Bank (ADB);
- Anglian Water;
- Environment Agency for England and Wales;
- UK Department for International Development (DfID);
- UK Department for Environment, Food and Rural Affairs (Defra);
- Economic and Social Research Council (ESRC);
- European Union (EU);
- International Committee of the Red Cross (ICRC);
- International Rivers;
- Foreign and Commonwealth Office (FCO);
- International Union for Conservation of Nature (IUCN);
- [International Water Management Institute \(IWMI\)](#);
- Medical Research Council (MRC);
- Natural Environment Research Council (NERC);
- Oxfam;
- UK Water Industry Research Ltd (UKWIR);
- United Nations Development Programme (UNDP);
- The World Bank.

As part of the School of International Development, the Centre benefits from a unique partnership with [International Development UEA](#), a charitable company which supports the research, training and consultancy activities of academic staff.

Transboundary Water Interaction: Conflict and Cooperation

Hydropolitical Baseline of the Upper Jordan River

The research, led by [Mark Zeitoun](#), examines the politics of use and control of the Hasbani and other Upper Jordan River tributaries, between Lebanon, Syria and Israel. Communities in southern Lebanon have been prevented in a number of ways from drawing the water required to sustain agricultural livelihoods.

CLICO: Climate Change, Conflict and Human Security

This collaborative project, funded under the EU Framework 7 Program, explores the ways in which different hydro-climatic (water related) hazards, and the vulnerability and adaptive capacity of societies interact to produce conflict and/or cooperation and human insecurity. The three year project commenced in January 2010 and involves 14 research teams from Europe, North Africa, the Sahel and the Middle East. The UEA team comprises [Anita Milman](#), [Declan Conway](#), [Marisa Goulden](#) and [Neil Adger](#).

Water options and negotiation strategies for the West Bank and Gaza

The work addresses the many obstacles to water conflict resolution and water resources management in the West Bank and Gaza. Scarcity of water and water quality have primarily political roots stemming from the Israeli occupation, and are compounded by over-population due to population influxes from refugees in 1948 and 1967, and high birth rates. Environmental justice issues abound in the form of climate vulnerability, and proximity of communities to wastewater lagoons, and these issues are inextricably linked with social justice issues related to the broader political conflict. A negotiated end of the conflict and free access to water resources is the goal. This ongoing research and policy work falls under several projects, and is led by [Mark Zeitoun](#).

Integrated Catchment Management

Catchment Management for Protection of Water Resources

This project investigated how the scientific and social accomplishments of innovative catchment management programmes in the USA, Australia and other European countries can be extended to the UK. A catchment management 'template' was derived which compiles and assimilates scientific understanding and governance procedures as tested in actual decision making and management practice in case study catchments. Research is being undertaken by [Kevin Hiscock](#) and [Tobias Kruger](#), with partners in London (SOAS), USA, Australia, Germany, The Netherlands, Denmark, funded by the Rural Economy and Land Use Programme (RELU).

Irrigation and Livelihoods

PRESPA: Phongola River Ecosystems Services and Poverty Alleviation

The Phongola River ESPA project, managed by [Bruce Lankford](#), [Vasudha Chhotray](#) and [Marisa Goulden](#) (DEV, UEA), and Chris Dickens and Kate Pringle (INR, South Africa), was one of 12 projects funded by NERC examining the linkages between eco-system services and poverty alleviation (ESPA). Research centred on the Phongola/Jozini water system in northern Kwa-Zulu Natal, South Africa, running from January 2009 to January 2010.

RIPARWIN: Raising Irrigation Productivity And Releasing Water for Intersectoral Need

This five year project (2001 - 2006) examined the idea that irrigation efficiency could be raised to release water downstream. It was a DFID-funded research project implemented by the Soil-Water Management Research Group (SWMRG), Sokoine University of Agriculture (SUA), Tanzania; School of International Development, University of East Anglia (UEA); and the [International Water Management Institute \(IWMI\)](#) through its Africa Regional Office, South Africa.

Systematic Review of Water, Institutions and Poverty

A full Systematic Review is being undertaken to address the question: "What factors determine the performance of institutional mechanisms for water resources management in developing countries in terms of delivering pro-poor outcomes, and supporting sustainable economic growth?" Led by [Nick Hepworth](#), [Virginia Hooper](#), Dennis Hellebrandt, Sarah Lubbe and [Mark Zeitoun](#) work with the Collaboration for Environmental Evidence on the behalf of [DFID](#) and is expected to end mid-2012.