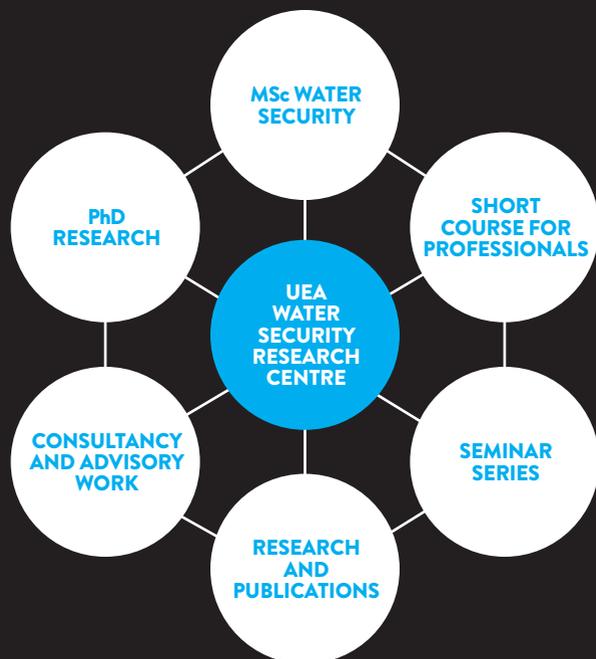


UEA WATER SECURITY RESEARCH CENTRE

WHAT WE DO

We apply interdisciplinary natural and social science to address the theoretical, policy and practical challenges of managing and governing water in a rapidly changing world.

Drawing upon the specialist skills and experience of internationally-renowned researchers in the School of International Development, School of Environmental Sciences, and Norwich Medical School*, members of the Centre address key water security issues at multiple scales.



www.uea.ac.uk/watersecurity

PEOPLE-CENTRED, INNOVATIVE AND RIGOROUS RESEARCH

With so many competing definitions of water security, we stress asking – and answering – the questions ‘water security for whom?’ and ‘water security how?’ For us, water security must be for the majority and marginalised, and comes about first through people-centred, innovative and rigorous research.

‘Water security’ is interpreted in a broad political ecology and political economy sense: understanding the diverse uses and benefits of water in international and community development, and in turn, recognising the multiple disciplines, drivers and constraints that guide and influence water management and governance.

Water is therefore seen as intimately connected to critical global policy concerns – climate change, food trade and food security, energy security – and the international cooperation that affects human, community, environmental, national and regional security.

A UEA PARTNERSHIP

The Centre draws upon expertise from across the University of East Anglia: the School of International Development, the School of Environmental Sciences, the Tyndall Centre for Climate Change Research, the Climatic Research Unit, and Norwich Medical School.

OUR KEY STRENGTHS

Calling upon more than 30 water scientists at UEA, 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**
- **Water quality**
- **Water resources management**
- **Transboundary basins**
- **Irrigation performance and policy**
- **Water allocation and justice**
- **Water politics and governance**
- **Water privatisation and markets**

RESEARCH LEADERSHIP

Research leadership is demonstrated by our Editorial, Steering and Board positions. Examples include the *International Journal of Climatology*, *Water International*, *Frontiers in Environmental Science*, *Environment and Urbanization*, and *Carbon Brief*.

*The University of East Anglia (UEA) is among the top 1% of universities globally (Times Higher Education World Rankings 2014-15) and placed 10th in the UK for the quality of its research output (Research Excellence Framework 2014, REF2014). In REF2014, the School of International Development was placed 4th in the country for overall research, with 74% of research ranked ‘world-leading’ or ‘internationally excellent’. The School of Environmental Sciences was the 3rd placed department in the UK when ranked by the volume of world-leading research achieved and 5th placed in terms of research ‘power’, with 35% of research judged to be ‘world leading’ and 53% ‘internationally excellent’ by REF2014. On average, over 85% of the research carried out by the Faculty of Medicine and Health Sciences was rated as ‘world-leading’ or ‘internationally excellent’.

PUTTING OUR RESEARCH INTO PRACTICE



OUR CLIENTS AND FUNDERS

Our staff offer wide ranging advisory and research services to external agencies. Recent funders and clients include: Anglian Water | Atkins Water | British Academy | UK Department for International Development (DfID) | UK Department for Energy and Climate Change (DECC) | Economic and Social Research Council (ESRC) | European Union (EU) | International Committee of the Red Cross (ICRC) | International Development Research Centre (IDRC) | International Union for Conservation of Nature (IUCN) | International Water Management Institute (IWMI) | Medical Research Council (MRC) | Natural Environment Research Council (NERC) | Netherlands Organisation for Scientific Research (NWO) | Oxfam | Tyndall Centre for Climate Change Research | United Nations Development Programme (UNDP) | United Nations Training Programme (UNITAR) | United States Agency for International Development (USAID) | The World Bank | Worldwide Fund for Nature (WWF).



OUR RESEARCH PROJECTS

ASSAR: Adaptation at Scale in Semi-Arid Regions (IDRC), with the University of Cape Town

Environmental justice and displacement from the Merowe Dam in Sudan (ESRC/DFID), with the South Asia Institute of Advanced Studies, Sudan National Discourse Forum and University of Edinburgh

Hydropower development in the context of climate change: exploring conflicts and fostering collaboration across scales and boundaries in the eastern Himalayas (Netherlands Research Organisation, DFID)

AQUAVALENS or 'healthy water' consortium (EUF7)

Women, informal work and water: drudgery and risks related to water-fetching. A systematic review and meta-analysis (UEA), with SIWI and ILO

Blue-Green Cities (EPSRC)

Nexus Network (ESRC)

Securing water for megacities: An analysis of water governance and scarcity in the São Paulo Metropolitan Region (British Academy Newton Fund Mobility Grant), with Universidade Federal do ABC, São Paulo, Brazil

Armed conflict and urban services (UEA), with ICRC and Ruth MacDougall

For complete details and a full list of partner organisations, please visit:
www.uea.ac.uk/watersecurity/research

INTERNATIONAL COLLABORATION

Centre staff routinely engage with water researchers around the world, including WWF (International, UK and US), Stockholm International Water Institute (SIWI), International Water Management Institute (IWMI), Institute of Development Studies (IDS), School of Oriental and African Studies (SOAS), King's College London (KCL), The London School of Economics, University of Dundee, University of Oxford, Institute for Natural Resources (South Africa), the Institute of Environmental and Water Studies (Birzeit University) and the Engineering and Physical Sciences Research Council (EPSRC).

SHAPING POLICY

The Water Security Research Centre links effectively with policy and practice through a dynamic knowledge exchange programme, including strategies to involve the public and engage the media, effective use of networking technology, and international high-profile seminar series and conferences.

RECENT PUBLICATIONS

Edwards, G.A.S. (2015) 'Justice, neoliberal natures, and Australia's water reforms'. *Transactions of the Institute of British Geographers* 40 (4): 479-493.

Lankford, B.A.; Makin, I.; Matthews, N.; Noble, A.; McCornick, P. G.; and Shah, T. (2016) 'A compact to revitalize large-scale irrigation systems using a leadership-partnership-ownership theory of change'. *Water Alternatives* 9(1): 1-32.

Linton, J. and Budds J. (2014) 'The hydrosocial cycle: Defining and mobilizing a relational-dialectical approach to water'. *Geoforum* 57: 170-180.

Osborn T.J.; Gosling S.N.; Wallace C.J. and Dorling S. (2015) 'The water cycle in a changing climate'. In *7th World Water Forum, Words into Action*, Faircount Media Group, London: 14-19.

Zeitoun, M. (2011) 'The Global Web of National Water Security'. *Global Policy* 2: 286 - 296.

Zografos, C.; Goulden M. C. and Kallis G. (2014) 'Sources of human insecurity in the face of hydro-climatic change'. *Global Environmental Change* 29: 327-336.



SHORT TALKS TO FULL-TIME RESEARCH COME AND STUDY WATER SECURITY

MASTERS DEGREE IN WATER SECURITY

The MSc Water Security and International Development, launched in 2012, offers an interdisciplinary training in water, set in the context of development studies and policy. Two core course modules provide training in the theory, practice and policy of water security and associated topics. By taking these modules, students undertake innovative analytical exercises leading to a water security audit of a system of choice e.g. country, region or irrigation scheme.

Students take four other taught modules, and during May to August conduct a specialised research project leading to a dissertation.

Supervision is offered by staff members of the Water Security Research Centre. Assistance with internships is also provided. Intake for this 12 month degree is in September each year.

PHD RESEARCH ON WATER RESOURCES, GOVERNANCE AND SECURITY

Centre staff have supervised over 30 PhD students working on water-related research.

Topics include climate change and water, water allocation, irrigation governance, hydroelectric power, and integrated water resources management. We welcome enquiries on doctoral training.

SHORT COURSE PROFESSIONAL TRAINING

Our short course 'Water Security for Policy Makers and Practitioners' is held annually in June. The course is taught over five days by leading academics and practitioners from UK institutions including UEA, King's College London, London School of Economics, WWF, and WaterAid. The training is designed for entry and mid-level water and development policy-makers and professionals.

Further details can be found at www.uea.ac.uk/dev/co/prodev or by emailing devco.train@uea.ac.uk

POST-DOCTORAL AND PROFESSIONAL DEVELOPMENT

We offer capacity building through post-doctoral positions and via our Visiting Fellows programme. Recent visitors have worked on transboundary water management, the concept of green water, the hydrosocial cycle and sanitation improvement.

WATER SEMINARS

Each year, the Centre hosts seminars at UEA on a wide range of water topics. Recent talks given by UK and international speakers have covered green water management, the California drought, and water stewardship.



IN A GREAT SETTING

THE SCHOOL OF INTERNATIONAL DEVELOPMENT

Hosting the Water Security Research Centre, the School of International Development is one of the world's most respected institutions in the field of development studies, research and teaching. The School applies economic, social and natural sciences to understand social and environmental change and poverty alleviation.

THE SCHOOL OF ENVIRONMENTAL SCIENCES

The School of Environmental Sciences is one of the largest and longest established academic departments in Europe to focus on the study of the global environment.

With 240 research, teaching and support staff the School's success is built on high achievement within and between these disciplines.

THE UNIVERSITY OF EAST ANGLIA

Built on 140 hectares of beautiful parkland on the outskirts of Norwich, the UEA campus combines natural beauty with modern facilities, including one of the finest sports complexes and some of the best student accommodation in the country.

NORWICH

Norwich is a delightful and safe place to live, with all the facilities of a major commercial and cultural centre. It is consistently voted one of Britain's top cities for quality of life and prosperity.

The city centre is only a 15-minute bus ride from campus. Norwich has good bus and rail connections to London and the rest of the UK, and Norwich International Airport offers easy access to both the UK and Europe.

CONTACT US

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