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Current Posts

- Senior Research Fellow, Environmental Change Institute, University of Oxford (Jan 2017 –)
- Associate Fellow (Nov 2008 –), Green Templeton College, University of Oxford
- Adjunct Research Fellow (Sep 2011 –), Griffith University, Australia
- Adjunct (Jun 2016 –), University of Waterloo, Canada

Previous Posts

- Senior Research Fellow (January 2017 –); Director, Apr 2012 – Dec 2016; and Technical Director, Jan 2006 – Mar 2012 at UKCIP (www.ukcip.org.uk), Environmental Change Institute, University of Oxford, UK
- Living With Environmental Change Climate Adaptation Fellow (Apr 2012 – Nov 2013), UKCIP, University of Oxford
- Number of posts held within Environment Canada, 1974 to 2005, with a primary focus on climate, climate impacts and adaptation.

Education

BSc Physics and Mathematics (Honours), University of Guelph 1974
MSc Physics (Meteorology), University of Toronto, 1979

Synopsis of Work History

The following highlights aspects of my career that relate to adaptation, vulnerability and risk assessment, including in the context of supporting assessments at the national level and within sectors, in the development and use of climate data and information to support those assessments, and some examples related to management, organisational and communication skills.

Impacts, vulnerability and risk assessments

- UKCIP as a boundary organisation bridges science and practice through engaging the science community, policymakers and practitioners (public, private and third sectors) in the context of enhancing knowledge exchange, translation and mobilisation to support adaptation decision-making. This informed and sustained engagement has resulted in the provision of risk and adaptation decision-making tools, resources and other guidance based on emerging and evolving sciences (climate, impacts, vulnerability, risk and adaptation) and an understanding of users' needs and capacities. This bridging has also proved valuable in informing the identification of research gaps and needs and the application of the resulting research by end-users.

- Working with different stakeholders (private sector companies, water companies, catchment managers, public organisations) within the UK on the identification and appraisal of adaptation options in response to identified risks and on the monitoring and evaluating those options implemented. These efforts were based on earlier work with stakeholders to provide guidance on identifying adaptation options and some ongoing work with the public and private sector in the UK, China and Brazil on developing guidance on adaptation appraisal.
- Working within the UK-based Infrastructure Operators' Adaptation Forum where efforts have focused on engaging researchers, policymakers, regulators and practitioners within the different infrastructure sectors (energy, transport, water, ICT and waste) to explore adaptation and resilience in the context of climate change. A primary focus of the associated science-policy dialogues has explored the interdependencies within and across the water, energy and transport sectors.
- UK Water Industry Research Adaptation Framework (2012). Updating the Water UK Adaptation Framework (supportive guidance and tools) to guide/support the water companies in adaptation planning and delivery with a particular emphasis on exploring, understanding and communicating impacts and risks, including interdependencies, adaptive capacity and enablers/barriers, as well as overall technical advice on the nature, scope and use of the framework.
- Working in China within the Adapting to Climate Change in China project to support and guide efforts related to undertaking vulnerability, risk and adaptation assessments at the provincial level (Ningxia, Inner Mongolia and Guangdong) to support their provincial planning process including the co-authoring of the ACCC Resource Manual (guidance on conducting a vulnerability and risk assessment and integrating this with the impacts assessment to information adaptation planning) targeting policy makers in China and other countries (supporting south-south learning from the ACCC experience). This activity in China is continuing with a second phase (2015-2017) that will work with five provinces (Guizhou, Jiangxi, Inner Mongolia, Ningxia and Jilin) to develop their adaptation plans and provide guidance and best practice recommendations that can be shared across China and with other developing countries
- Principal Investigator of the Adaptation and Resilience in the Context of Change (ARCC) Network 2009 – present) targeted at enhancing the impact of research council investments in research related to the built environment and infrastructure sectors. Enhancing the knowledge exchange between researchers and between the research projects and the related stakeholder communities and synthesising and mobilising knowledge and evidence from related research to provide the knowledge and evidence needed by users.
- Member of the European Topic Centre on Climate Impacts Vulnerability and Adaptation (ETC/CCA) supporting the European Environment Agency in the delivery of Climate-ADAPT (adaptation information portal) and in their support to the European Commission's adaptation programme (2011 – present). This has included the development and presentation of case studies, the provision of guidance and support to countries at the national/regional level (West Balkans), the provision of guidance on assessments and uncertainty for inclusion on Climate-ADAPT, contributing to EEA publications on adaptation, the assessment of European national

capacity, and understanding and enhancing the roles and capacities of national and transnational adaptation platforms.

- Worked within CIRCLE-2 (ERANET) as a member of their Advisory Board, and as an expert contributor leading initiatives related to national adaptation strategies, the role of uncertainties in decisions making, climate adaptation services and web-based adaptation platforms (2010 – 2014). These included authoring and reviewing policy briefs and a book chapter (role of uncertainty in decision making).
- Working across the adaptation research community and with the associated policy and practitioner communities to provide knowledge and evidence to support the development of adaptation and to identify knowledge gaps. This work included defining strengths, weaknesses and needs towards identifying early actions and multi-disciplinary research needs to inform the UK Climate Change Risk Assessment (CCRA) and National Adaptation Programme, as well as the structures and mechanisms to support an effective and viable UK adaptation research community.
- Supported the UK's first CCRA as expert advisor throughout the commissioning and delivery of the evidence report and the Economics of Climate Risk project (2010 - 2012). Led the Canada Country Study, Canada's first national assessment and an *ex-officio* member of the synthesis team for the USA first national assessment. Lead contributing author on the cross-cutting risks chapter of the UK's second CCRA evidence report (published July 2016) looking at the implications of interdependencies within systems that affect risks and opportunities, and the identification and implementation of adaptation options.
- Policy-science dialogues on lessons learnt and challenges in the undertaking and delivery of national climate assessments (2000 and 2013). These involved engaging representative of national governments responsible for their respective climate assessments to share challenges and lessons learnt. As the lead in both these efforts, this work involved engaging the different representatives, chairing the dialogues (held under Chatham House Rules) and developing a report.
- Supporting as a member of the Steering Committee the development of a National Centre of Excellence on adaptation in Canada which includes the development of a series of critical research themes, including one focusing on research and innovation needed to support climate services and the data and information as a cross-cutting theme supporting adaptation solutions, adaptation and economics, monitoring and evaluation, and Canada in a climate disrupted world.

Development and use of climate data and information to support impact, vulnerability, risk and adaptation assessments

- The development and delivery of UKCP09 as information to inform adaptation (2007-2012). This included: identifying users' needs and capabilities relative to the science; informing the development of the delivery and presentation of that information (including through a user interface) and of supportive materials (tools to access and process the data), guidance, alternative formats of the information (e.g., maps, images, headline messages, key findings). Member of the UKCP18 non-Government Users' Group supporting the development of the next generation of climate projections for the UK. All with the aim of meeting the evolving needs of the users in the context of supporting decision making.

- Understanding users' needs for climate and other information to support adaptation decision-making across the UK as part of the LWEC Climate (Adaptation) Fellowship activities and the UK contribution to JPI-Climate. Included contributing to the development of guidance to support the engagement of users, providers and purveyors of climate services in the development of those services and the growing of the associated market.
- For Adaptation to Climate Change in China (ACCC) Phase I, worked with the China Meteorological Administration and other researchers to develop climate services (data and information) to support impacts, vulnerability and adaptation assessments. Currently, an expert contributor on the development of translational science for climate services of the Climate Science for Service Partnership (China–UK Met Office). Working with partners in China to build the capacity of users and providers of climate services, to test process-oriented mechanisms to facilitate efforts to mainstream climate resilience into socio-economic planning, and to identify best practice guidelines for working collaboratively with users of climate services. Focussed on water resource management.
- One of five experts enlisted by European Commission DG Research and Innovation to develop a roadmap for the Horizon2020 climate services research and innovation programme (€800m). Member of the JPI-Climate Management Committee and co-lead on Climate services module that included developing an understanding of users' and providers' needs in order to identify the research required to deliver climate services.
- Member of the Climate Services Roadmap Implementation Working Group that has been brought together by DG Research and Innovation. This Group (representatives of key institutional actors in the climate services field) support the implementation of the Roadmap through information sharing, developing a rolling implementation plan, promotion and coordination of Roadmap actions, and feedback from experiences and new ideas for updating the Roadmap.
- Member of the JPI Climate Management Committee (up until 2016) and co-lead for the Climate services module that included developing an understanding of users and providers in order to identify research and innovation required to deliver climate services.
- Lead within the JPI Climate CSA the development of an updated JPI Climate Strategic Research and Innovation Agenda (SRIA), and Implementation Plan. Member of the JPI Climate GB Task Force that led to the development of the adopted SRIA (May 2016). As a member of the JPI Climate Management Committee, participated in the development of the JPI Climate ERA4CS.
- Managing on behalf of the UK Natural Environment Research Council (NERC) as part of the JPI Climate ERA4CS Additional Activities the identification and assessment of research and knowledge exchange activities in support of climate services and gaps at the national, European and International scale for the purpose of critically analysing these to identify synergies, redundancies and gaps to inform the development of a vision and implementation strategy for the JPI Climate and beyond.

Management, Organisational and Communication Skills

- Senior management level positions: Director, Adaptation Science, UKCIP; Regional Director (Ontario), Meteorological Service of Canada (MSC), Environment Canada; Director, Adaptation and Impacts Research Group, MSC, Environment Canada; Science, Policy and International Affairs, MSC, Environment Canada.
- Organisation and delivery of major workshops, symposia, conferences and meetings:
 - Within UKCIP as part of delivery of a wide variety of research projects with the aim of: engaging stakeholders and researchers to identify gaps, needs and potential responses; disseminating research results and stakeholder views and perspectives; facilitating the uptake and use of research results and the enhancement of tools and guidance.
 - Within China as part of the Adaptation to Climate Change in China projects, including on impacts, vulnerability, risk and adaptation assessment processes, and the development of climate services to support those assessments.
 - Across Europe in support of the Joint Programme Initiative on Climate (JPI-Climate) with a particular focus on defining and developing climate services and the research needed to support those services.

Recent research projects

- PI: Adaptation and Resilience in the Context of Change network (2014-2018) <http://www.arcc-network.org.uk/>
- PI: Adaptation and Resilience in a Changing Climate network (2009-2013)
- PI: Engaging UK Climate Service Providers: facilitating participation in Horizon2020 (2014-2015)
- Co-I: Joint Programming Initiative 'Connecting Climate Knowledge for Europe' Coordination and Support Action, (WG2 climate services and WG5 stakeholder engagement, 2013-2016) <http://www.jpi-climate.eu/>
- Co-I: Translational Sciences for Developing Climate Services in China, Climate Sciences for Services Partnership – China, Newton Fund (2015-2017)
- UK lead: ERA-Net for Climate Services (ERA4CS) Additional Activities Task 7.4 (H2020 funded, January 2017-June 2017)

Selection of recent publications

UKCIP and Cooper, I (2016) *Lessons from Coordinating a Knowledge Exchange Network*, ISBN 978-1-906360-13-9

Street, R B (2016) *Towards a leading role on climate services in Europe: A research and innovation roadmap*, Climate Services, vol 1, p2-5, [doi:10.1016/j.cliser.2015.12.001](https://doi.org/10.1016/j.cliser.2015.12.001)

Lead Author chapter 8 (Cross-cutting issues): *UK Climate Change Risk Assessment 2017 Evidence Report*, (2016), <https://www.theccc.org.uk/uk-climate-change-risk-assessment-2017>

Lead Author, chapter 1 (Climate change adaptation planning to policy): *Climate Risk and Resilience in China*, 2016, ISBN 978-1-138-81884-2

Expert Group member and rapporteur: *A European Research and Innovation Roadmap for Climate Services*, (2015) EC DG Research and Innovation, doi:10.2777/750202

Lonsdale, K; Pringle, P; Street, R; Turner, B (eds); *Transformational adaptation - Stakeholder Workshop Summary Report*, (2015) <http://www.ukcip.org.uk/creative-adaptation/transformational-adaptation/>

Lourenco, T.C., Rovisco, A., Groot, A., Nilsson, C., Fussel, H-M., and Street, R.B. (eds.), 2014, *Adapting to an Uncertain Climate: Lessons from practice*, Springer, pp182.

Street, R and S Opitz-Stapleton (2013) *ACCC Resource Manual: Reflections on Adaptation Planning Processes and Experiences*. ACCC project management office

Tiago Capela Lourenço, Ana Rovisco, Annemarie Groot, Leendert van Bree, Roger Street, Pedro Garrett and Filipe Duarte Santos, (2013) *Making adaptation decisions: the far end of the uncertainty cascade*, Impacts World 2013, International Conference on Climate Change Effects, Postdam, May 27-30



Street, R. and S. Opitz-Stapleton, 2013, ACCC Resource Manual: Reflections on Adaptation Planning Processes and Experiences, 134 pp., DfID-China: Beijing

R B Street, Guest editorial, *Adaptation and Resilience to a Changing Climate: Supporting Adaptation decision making*, (2012) Building Services Engineering Research and Technology, Vol 33 (1)

J.W. Hall (University of Oxford), G. Watts (Environment Agency), M. Keil (Ofwat), L. de Vial (Wessex Water), R. Street (UK Climate Impacts Programme), K. Conlan (Cascade Consulting), P.E. O'Connell (Newcastle University), K.J. Beven (Lancaster University), C.G. Kilsby (Newcastle University), 2011 Towards risk-based water resources planning in England and Wales under a changing climate, *Water and Environment Journal*

Boyd, E., Street, R., Gawith, M., Lonsdale, K., Newton, L., Johnstone, K, and Metcalf, G., 2011 Leading the UK Adaptation Agenda: A Landscape of Stakeholders and Networked Organisations for Adaptation in Climate Change in *Climate Change Adaptation in Developed Nations: From Theory to Practice*, Ford, J.D, and Berrang-Ford, L (editors) *Advances in Global Change Research*, Volume 42, Springer

Assessing the long-term performance of cross-sectoral strategies for national infrastructure Jim W Hall, Ph.D.; Justin J Henriques, Ph.D.; Adrian J Hickford; Robert J Nicholls, Ph.D.; Pranab Baruah, Ph.D.; Mark Birkin, Ph.D.; Modassar Chaudry, Ph.D.; Tom P Curtis, Ph.D.; Nick Eyre, Ph.D.; Cliff Jones, Ph.D.; Chris G Kilsby, Ph.D.; Alex Leathard; Alexander Lorenz, Ph.D.; Nicolas Malleson, Ph.D.; Fraser McLeod; William Powrie, Ph.D.; John Preston, Ph.D.; Neha Rai; Roger Street; Anne Stringfellow, Ph.D.; Chris Thoung; Pete Tyler, Ph.D.; Roberta Velykiene; Geoff Watson; Jim Watson, Ph.D. *ASCE Journal of Infrastructure Systems*