

Poster List

- Canal and River Trust (David Mould and Matt Wells)
Managing the Canal and River Trust's Water Resources
- Centre for Environment, Fisheries & Aquaculture Science (Carlos Campos)
Faecal indicator bacteria and norovirus in a shellfish water impacted by sewage discharges and freshwater inputs from an ephemeral river
- Centre for Ecology & Hydrology (Andrew Chiverton)
Which catchment characteristics influence the temporal dependence of daily river flows?
- Former Centre for Ecology & Hydrology (Ian Littlewood)
Joint applications of NRFA and other hydrometric and water quality national data sets: selected case studies
- Environment Agency (Richard Severn)
Changes over time in the hydrometric instrumentation of an NRFA long-record gauging station
- Scottish Environment Protection Agency (Grant Kennedy)
100 years of automated level recording on the River Irvine
- Scottish Environment Protection Agency (Nigel Goody)
Development of the Scottish river gauging network
- University of Birmingham (Alexander Royan)
Avian community responses to variability in river hydrology
- University of Bristol (Gemma Coxon)
Implications of stage-discharge rating curve uncertainty for model evaluation and hydrological characterisation at the national scale.
- University of Bristol (Jim Freer)
Emergent structures and understanding from a comparative uncertainty analysis of the FUSE rainfall-runoff modelling platform for >1,100 catchments
- University of Durham, University of Bristol (Tim Burt and Nicholas Howden)
North Atlantic Oscillation drives double orographic enhancement of precipitation and river flow in upland Britain
- University of Liverpool (Neil Macdonald)
Flood seasonality across Wales
- Wallingford HydroSolutions (Andy Young)
Estimating resource availability; the Low Flows software

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NATIONAL RIVER FLOW ARCHIVE
NATIONAL GROUNDWATER LEVEL ARCHIVE

HYDROMETRIC DATA: THE LONG VIEW

**Celebrating 30 years of the NRFA
and NGLA at Wallingford**

Agenda and Posters

Tuesday 22nd October 2013

Centre for Ecology & Hydrology, Maclean Building, Benson Lane,
Crowmarsh Gifford, Wallingford, Oxfordshire, OX10 8BB



Centre for
Ecology & Hydrology
NATURAL ENVIRONMENT RESEARCH COUNCIL



British
Geological Survey
NATURAL ENVIRONMENT RESEARCH COUNCIL



The early years of the 21st century have underlined both the vulnerability of the UK to hydrological extremes, and the challenges faced in reconciling the demands on our rivers and groundwater with society's aspirations for continuing improvements to our aquatic environment. Hydrometric data provide the essential foundation for research aimed at meeting these challenges through improved river and aquifer management strategies. Technological advances in data acquisition and archiving capabilities have facilitated a much wider exploitation of hydrometric data, but data utility continues to depend on a firm commitment to high standards of data stewardship.

History

The management of hydrological data at the UK scale can be traced back to the Inland Water Survey in the 1930s. In 1982 the Surface Water Archive and Groundwater Level Archive were transferred to Wallingford, under the stewardship of the Institute of Hydrology (now the Centre for Ecology & Hydrology) and the British Geological Survey. The National River Flow Archive (NRFA) now has over 50,000 station-years of river flow data, from over 1,500 gauging stations, with the longest records dating from the 19th century. The National Groundwater Level Archive (NGLA) holds over 9,000 station-years of data from its current network of stations and one off or short period observations from over 50,000 water wells. Together the NRFA and NGLA data have underpinned much of the hydrological research and water resources management activity carried out in the UK over the last three decades.

Agenda

- 10:00 Registration and tea/coffee**
- 10:30 Mark Bailey (CEH)
Welcome
- 10:35 David Boorman (CEH)
Session introduction
- 10:40 John Rodda (CEH Fellow)
The early days of UK hydrometric monitoring
- 11:05 Mike Lowing
The archives - and their stewards - move to Wallingford
- 11:30 Andrew McKenzie (BGS) & Harry Dixon (CEH)
Maintaining stable yet contemporary archives
- 11:55 Richard Brown (SEPA)
Hydrometric data: coal-face to archive
- 12:20 Rob Grew (EA)
UK Hydrometric monitoring in the 21st century
- 12:45 Lunch, poster session and demos/displays**
- 14:00 Nigel Goody (BHS)
Session introduction
- 14:05 Andrew Black (University of Dundee)
Reflections on the archives from academia: using the data and filling in the gaps
- 14:30 Colin Fenn (CIWEM/Hydro-Logic Services)
How the NRFA supports the needs of the UK water sector
- 14:55 Jamie Hannaford (CEH)
The NRFA at 30: what's next?
- 15:20 David Boorman (CEH)
Open discussion
- 15:40 Terry Marsh (CEH)
Musings and reflections on the NRFA
- 16:00 Close and tea/coffee**