The Catchment Change Network Knowledge Exchange Project
Grant No. NE/G008787/1
Final Report

Summary
The Catchment Change Network had the aim of enabling the exchange of knowledge between the NERC research base and science user community to understand and manage uncertainty and risk related to water scarcity, flood risk and diffuse pollution management. It did this through an internet based network and web site, workshops and training events, and annual meetings for network members, including a final international meeting. The success of CCN has led to the continuation of the project as the Catchment Change Management Hub (ccmhub.net).

Successes
1. CCN developed a network of over 950 people interested in catchment change ranging from academics, the water industry, consultancies, Government, Environment Agency, Defra, Ofwat, Rivers Trusts and other NGOs, and interested members of the public.
2. The main CCN dissemination tool was the Web site catchmentchange.net, which provided information on events, links to other sites (including a Web ring with the Demonstration Test Catchments sites) and an interactive blog called Catchment Conversations. The CCN web site will be archived.
3. CCN organised some 9 meetings and training events, including three Annual Conferences. Joint workshops were held in collaboration with the Flood Risk Management Research Consortium, the Royal Town Planning Institute, the North West Brownfield Regeneration Forum, the England Catchment Sensitive Farming Delivery Initiative, the Water UK Management Group, and the NERC Water Security Knowledge Exchange Programme.
4. The last annual conference event, with the title on Stakeholders, Next Generation Models and Risk in Managing Catchment Change, was an international two-day event that brought together from all the areas represented by the CCN network but also extended to some interested members of the public and two artists.
5. Guideline documents were produced from each of the focus areas of water scarcity, flood risk and diffuse pollution. These ranged in nature from an academic paper in water scarcity (Hall et al., 2012) that is having influence on Environment Agency and Ofwat approaches; to a Framework for assessing uncertainty in fluvial flood risk mapping, to be published by CIRIA, and a range of guideline documents for different stakeholder groups in diffuse pollution, including a calendar produced for farmers complete with tips on how to minimise and mitigate diffuse pollution (this can be downloaded from http://ccmhub.net/2013-catchment-change-calendar/). One thousand hard copies were also produced and distributed in collaboration with the Eden Rivers Trust targeting farmers, academics and researchers.
6. As a result of discussions with the CCN Steering Group and others, the CCN has evolved into a Catchment Change Management Hub with the aim of providing a common resource for all information and tools for anyone interested in catchment change management from the public to policy makers. This has now gone live (see ccmhub.net) with initial funding from the Water Security KEP and BIS-ScienceWise. Important input to the CCM Hub project has been provided by Cascade Consulting; charged by Defra to review the experience of the Pilot Catchment Based Approach catchments and produce a Handbook for Catchment Change Management. This handbook will be incorporated into the CCM Hub site.
Outputs: Web site


Outputs: Newsletters

A series of nine e-newsletters sent out to all contacts on the database.

Outputs: Publications

Beven, K J, Leedal, D T and Alcock, R, 2010, Uncertainty and good practice in hydrological prediction, Vatten, 66:159-163


**Outputs: Commentaries**

Beven, K J, 2011, I believe in climate change but how precautionary do we need to be in planning for the future? Hydrological Processes, 25, 1517-1520, DOI: 10.1002/hyp.7939.


Beven, K J, Buytaert, W and Smith, L. A., 2012, On virtual observatories and modelled realities (or why discharge must be treated as a virtual variable), Hydrological Processes, DOI:10.1002/hyp.9261


**Outputs: Calendar**

The Catchment Change Network Calendar 2013 Planting seeds to reduce water pollution from agriculture (available from CCN website and CCM Hub)
Walker, M., Mackay, E., Haygarth, P., 2012, Calendar rationale: spreading seeds to reduce water pollution from agriculture

**Outputs: Guidance documents**

Framework on reducing diffuse pollution from agriculture – perspectives from catchment managers

Framework on reducing diffuse pollution from agriculture – perspectives from policy makers

What part are the Demonstration Test Catchments playing in addressing water pollution? (In collaboration with the DTC project)
