

Research and Development

Final Project Report

(Not to be used for LINK projects)

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 An electronic version should be e-mailed to c.csgfinrep@csg.maff.gsi.gov.uk

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|--------------------------------------|------------------------------------------------------------------|------------------|------------|
| Project title | Catchment management system - Phase 1 Hydraulics | | |
| MAFF project code | FD0114 | | |
| Contractor organisation and location | HR Wallingford Ltd Howbery Park Wallingford, Oxon OX10 8BA | | |
| Total MAFF project costs | £ 200000 | | |
| Project start date | 01/09/97 | Project end date | 31/03/2001 |

Executive summary (maximum 2 sides A4)

The 'close-coupled' Whole Catchment Modelling approach led by CEH Wallingford has not developed as quickly as anticipated. The HR Wallingford work could therefore not be assimilated into the Whole Catchment Modelling system as had originally been intended. However, the ideas and framework for the project have been developed and pushed forward within several other initiatives.

Integrated Catchment Modelling was the focus of the European EUROTAS project. There was an agreed relationship between MAFF-related studies and this project with a proportion of HRW's MAFF funding being used to develop approaches for the latter studies. The principal output of the EUROTAS research has been a prototype, integrated catchment modelling system that includes decision support procedures. The research has been disseminated through scientific papers, an end-of-project conference as well as implementation of the prototype integrated modelling framework.

EUROTAS has demonstrated the viability of coarse-coupling of hydrological and hydrodynamic modelling for flood risk studies. The implementation was demonstrated for UK conditions by HRW and CEH, as the 'Thames Catchment Study', with support from the Environment Agency Thames Region.

Latest modelling for Catchment Flood Management Plans (CFMPs) under ongoing EA/DEFRA research is now putting the results of the above whole catchment modelling research into direct application within 2 years.

Scientific report (maximum 20 sides A4)

The following draft EUROTAS Reports demonstrate the considerable progress made in this area over recent years:

- T1 Integrated Catchment Model Development
- T3 Thames Catchment Studies
- T10 Decision Support Systems

The Eurotas project website can be found at <http://www.hrwallingford.co.uk/projects/EUROTAS/>

Reports are available on request, from Dr Paul Samuels, HR Wallingford. Dr Samuels can also provide further details on the integrated modelling framework.'

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