Project no. GOCE-CT-2003-505540

Project acronym: Euro-limpacs

Project full name: Integrated Project to evaluate the Impacts of Global Change on European Freshwater Ecosystems

Instrument type: Integrated Project

Priority name: Sustainable Development

Deliverable No. 15
Data exchange and integration between WP2 & WP6 partners (NERC-CEH and AERC-University of Reading)

Due date of deliverable: Month 12
Actual submission date: 31/01/2005

Start date of project: 1 February 2004
Duration: 5 Years

Organisation name of lead contractor for this deliverable: NERC-CEH – John Murphy
Introduction

At the kick-off meeting at Innsbruck Dr Andrew Wade (AERC) met with Drs. Mick Furse and John Murphy (NERC-CEH) to discuss possibility for cooperation in collating environmental data for the Lambourn catchment (one of the 40 key sites within the Euro-limpacs project).

Later in the summer AW, MF & JM met at Reading to discuss data holdings and scientific objectives within Euro-limpacs. We agreed to exchange data sets, where possible, and to keep in contact as our analyses progressed.

Data received by NERC-CEH from AERC

<table>
<thead>
<tr>
<th>Data type</th>
<th>Site</th>
<th>Period</th>
<th>Owner/Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Chemistry</td>
<td>4 sites on Lambourn &amp; 7 sites on Kennet</td>
<td>Lambourn (2002/03)</td>
<td>NERC-funded LOCAR project</td>
</tr>
<tr>
<td>Water Chemistry</td>
<td>11 sites</td>
<td>Various periods depending on the site between mid 1970s and present</td>
<td>Environment Agency</td>
</tr>
<tr>
<td>Metadata base of Hydrological and Hydrochemical data sources</td>
<td>R. Pang, Lambourn and Kennet</td>
<td>Various periods depending on the site between mid 1970s and present</td>
<td>NERC-funded LOCAR thematic programme/AERC</td>
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<tr>
<td>Effluent chemistry</td>
<td>7 sites</td>
<td>Various periods depending on the site between mid 1970s and present</td>
<td>Environment Agency</td>
</tr>
<tr>
<td>Water abstraction details</td>
<td>N/A</td>
<td>Yearly Totals for 1970-1982</td>
<td>Environment Agency</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Monthly Totals for 1983-2002</td>
<td></td>
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</table>

Data sent by NERC-CEH to AERC

<table>
<thead>
<tr>
<th>Data type</th>
<th>Site</th>
<th>Period</th>
<th>Owner</th>
</tr>
</thead>
<tbody>
<tr>
<td>Macrophyte and associated macroinvertebrate</td>
<td>1 site (Lambourn @ Bagnor)</td>
<td>mid-1970s &amp; late 1990s</td>
<td>NERC-CEH3</td>
</tr>
</tbody>
</table>

community composition

Mesohabitat-specific macroinvertebrate community benthic density

3 sites (Kennet @ Littlecote Upper Saversnake & Lower Saversnake) mid-1970s & late 1990s

NERC-CEH45

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Sediment data River Gail (Killingseder, 1998)
(BOKU)

Data of this river were made available concerning:
- surface runoff (intense rain events)
- catchment area
- landscape morphology
- geology
- land use
- main relevant sediment sources
- sieve analyses
- bed load: the bed load was calculated for the main tributaries
- sediment load: the sediment load was estimated following SMART & JÄGGI (1983)

In WP6 it is intended to calculate:
changes in sediment transport in dependency on changes in land use
INCA for modeling