

## **THE FIFTH & SIXTH FRAMEWORK PROGRAMMES**

The Fifth and Sixth Framework Programmes cover Community activities in the field of research, technological development and demonstration for the periods 1999-2002 and 2002-2006 respectively

## **Projects in the 5th & 6th Framework Programmes of relevance to Defra's Water Directorate (Reviewed April 2005)**

*Undertaken by FWR on behalf of the Water Directorate of the Department for Environment, Food and Rural Affairs (Defra) under contract reference DWI 70/2/152*

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The CORDIS World Wide Web site is <http://www.cordis.lu/>

## ABBREVIATIONS

CAP	Common Agricultural Policy
CFP	Common Fisheries Policy
CORDIS	Community Research and Development Information System
Defra	Department for Environment, Food and Rural Affairs
DETR	Department of Environment, Transport and the Regions (until 2001)
ERA	European Research Area
EUROPA	EUROPA is the portal site of the European Union ( <a href="http://europa.eu.int/">http://europa.eu.int/</a> ). It provides information on European Union affairs and integration
EU	European Union
FP5	The 5 <sup>th</sup> EU Framework Programme for Research and Technological Development
FP6	The 6 <sup>th</sup> EU Framework Programme for Research and Technological Development
GCE	Global Change and Ecosystems" thematic sub-priority of FP6
GMES	Global Monitoring for Environment and Security
IP	Integrated Project
JRC	Joint Research Centre
KA	Key Area
NCP	National Contact Point
NEST	New and Emerging Science and Technologies
NoE	Network of Excellence
SME	Small or Medium-Size Enterprise
SSP	The 'Scientific Support to Policies' research projects initiative under FP6
STREP	Specific Targeted Research Project
URL	Uniform Resource Locator (web address)
WD	Water Directorate (of Defra)
WFD	Water Framework Directive
WLD	Water and Land Directorate (now WD)

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## 1 Introduction

This report provides updated information on research programmes and projects discussed in a previous review produced for the Water Directorate (WD) of Defra in March 2003<sup>1</sup>.

The 2003 review summarised the status of selected FP5 projects, mainly based on the information available from the dedicated project websites on the Internet. Attention was drawn to several ‘late start’ FP5 research contracts, of interest to WD. The review also provided a brief overview of the basic features of FP6 and a review of project calls that may be related to the interests of the WD.

## 2 Updated information on FP5 projects in Key Action 1: *Sustainable Management & Quality of Water*

### 2.1 Sources of information

Key action 1 (within the Energy, Environment and Sustainable Development Programme of FP5) now has a library website dedicated to providing “public access to obtained project results”. The library is part of the EUROPA portal site of the European Union and the library address is <http://forum.europa.eu.int/Public/irc/rtd/eesdwatkeact/library>

The library provides a downloadable catalogue<sup>2</sup> of all the Key Action 1 projects (as of January 2004), containing the original aims and objectives of each. Of most interest to those seeking results, are the addresses (URLs) of each project’s dedicated website. A typical project website comprises a ‘Home Page’ providing a general introduction to the project and a contents list; it usually also contains a project description and a list of published project reports, papers and meetings. A few websites have special features such as ‘on-line’ modelling programmes, downloadable reports and papers, and detailed results obtained to date. In a few cases, some information is ‘password protected’ and is usually then available only to participants in the project. All websites have copyright protection and therefore cannot be reproduced without permission.

Welcome additions to this library website are executive summaries of the **results** from 81 (April 2005) projects (out of a total of 186). Internal links to the executive summaries of the results (if available) are listed in the downloadable catalogue; this facilitates easy access.

The above-mentioned catalogue of KA1 projects reveals many more projects than those available for review in the previous report. In fact there is over twice as many projects in the catalogue when compared with the projects listed in March 2003. This large increase in previously unreported project numbers, and the continual updating and posting of executive results summaries on the library website, imply that the most reliable approach for WD staff to identify research relevant to their specific interests is to browse the library website and catalogue. Such a task is facilitated by the previously unavailable complete listings of projects’ dedicated web addresses and the inclusion of the addresses of the executive results summaries (if available) in the catalogue. However, our knowledge of WD responsibilities has helped in creating the following shortlists of what we believe are relevant projects in certain key policy areas as described in the following sections 2.2 to 2.6.

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<sup>1</sup> Projects & proposals in the 5th & 6th Framework Programmes of relevance to Defra’s Water Directorate Policy Objectives. FWR March 2003 [www.fwr.org/fp6.pdf](http://www.fwr.org/fp6.pdf)

<sup>2</sup> Located at <http://forum.europa.eu.int/Public/irc/rtd/eesdwatkeact/library> and found under “Research Projects Information” as a pdf file headed “FP5 – EVK1 Project abstracts”. When downloaded the document is entitled “Catalogue of Contracts, FP5, Sustainable Management and Quality of Water, Key Action 1 of Energy, Environment and Sustainable Development Programme. 05/01/04.”

## 2.2 Projects related to Water Supply and Regulation of Water Services

ACRONYM	TITLE	Project URL Results summary available? End date (MM/YY)
AQUALIBRIUM	European water management between regulation and competition	<a href="http://www.aqualibrium.de/en/main.htm">http://www.aqualibrium.de/en/main.htm</a> N (01/03)
EUROMARKET	Water liberalisation scenarios: an empirical analysis of the evolution of European water supply and sanitation sectors	<a href="http://www2.epfl.ch/mir/page18246.html">http://www2.epfl.ch/mir/page18246.html</a> N (12/05)
Intermediaries	New intermediary services and the transformation of urban water supply and wastewater disposal systems	E-mail: <a href="mailto:mosst@irs-net.de">mosst@irs-net.de</a> N (10/05)
MEIF	Méthode d'évaluation des investissements dans l'eau prospectives sur le financement et le prix de l'eau	<a href="http://www.meif.org/uk/index.php">http://www.meif.org/uk/index.php</a> N (06/04)
CARE-W	Computer aided rehabilitation of water networks	<a href="http://care-w.unife.it/">http://care-w.unife.it/</a> Y (01/04)
Photox	Photocatalytic destruction of cyanotoxins and pathogens in potable (drinking) water	<a href="http://www2.rgu.ac.uk/subj/mes/cee/main/photoxfront.htm">http://www2.rgu.ac.uk/subj/mes/cee/main/photoxfront.htm</a> Y (11/03)
TOXIC	Barriers against cyanotoxins in drinking water	<a href="http://www.cyanotoxic.com/">http://www.cyanotoxic.com/</a> N (08/05)
MICRORISK	Microbiological risk assessment: a scientific basis for managing drinking water safety from source to tap	<a href="http://www.microrisk.com">http://www.microrisk.com</a> N (10/05)
WEKNOW	Web-based European knowledge network on water	<a href="http://www.weknow-waternetwork.com">http://www.weknow-waternetwork.com</a> N (09/05)
SAFER	Surveillance and control of microbiological stability in drinking water distribution networks	<a href="http://www.safer-eu.com">http://www.safer-eu.com</a> N (10/06)
CPDW	Development of harmonised tests to be used in the European approval scheme concerning construction products in contact with drinking water	<a href="http://rea.ei.jrc.it/cpdweas/">http://rea.ei.jrc.it/cpdweas/</a> Y (05/03)

### 2.3 Projects related to Control of Diffuse Pollution

ACRONYM	TITLE	Project URL Results summary available? End date (MM/YY)
INCA	Integrated nitrogen model for European catchments	<a href="http://www.rdg.ac.uk/INCA/">http://www.rdg.ac.uk/INCA/</a> Y (03/03)
ENVIRPHARMA	European conference on human and veterinary pharmaceutical products in the aquatic environment: fate, effects and regulation: knowledge and future needs.	<a href="http://www.envirpharma.org/">http://www.envirpharma.org/</a> Y (08/03)
DESPRAL	An environmental soil test to determine the potential from sediment and phosphorus transfer in run-off from agricultural land	N (04/04)
AGRIBMPWATER	Systems approach to environmentally acceptable farming	<a href="http://www.bordeaux.cemagref.fr/adbx/agribmpwater/">http://www.bordeaux.cemagref.fr/adbx/agribmpwater/</a> N (01/04)
ERAVMIS	Environmental risk assessment of veterinary medicines in sludge	<a href="http://www.silsoe.cranfield.ac.uk/ecochemistry/eravmis/">http://www.silsoe.cranfield.ac.uk/ecochemistry/eravmis/</a> Y (05/03)

### 2.4 Projects related to the Effects of Climate Change

ACRONYM	TITLE	Project URL Results summary available? End date (MM/YY)
SWURVE	Sustainable water: uncertainty, risk and vulnerability in Europe	<a href="http://www.ncl.ac.uk/swurve/">http://www.ncl.ac.uk/swurve/</a> N (11/03)
CLIME	Climate and lake impacts in Europe	<a href="http://www.water.hut.fi/clime">http://www.water.hut.fi/clime</a> N (12/05)
FLOODRELIEF	Real-time flood decision support system integrating hydrological, meteorological and radar technologies	<a href="http://projects.dhi.dk/floodrelief/index2.htm">http://projects.dhi.dk/floodrelief/index2.htm</a> N (10/05)
ACTIF	Achieving technological innovation in flood forecasting	<a href="http://www.actif-ec.net/">http://www.actif-ec.net/</a> N (01/06)

## 2.5 Projects related to scientific aspects of Water Framework Directive

ACRONYM	TITLE	Project URL Results summary available? End date (MM/YY)
BASELINE	Natural baseline quality in European aquifers: a basis for aquifer management	<a href="http://www.bgs.ac.uk/hydrogeology/baseline/europe/home.html">http://www.bgs.ac.uk/hydrogeology/baseline/europe/home.html</a> N (02/03)
HarmonIT	IT frameworks	<a href="http://www.harmonit.org/">http://www.harmonit.org/</a> N (12/05)
BMW	Benchmark models for the Water Framework Directive	<a href="http://www.vyh.fi/eng/research/euproj/bmw/homepage.htm">http://www.vyh.fi/eng/research/euproj/bmw/homepage.htm</a> N (12/04)
EUROHARP	Towards harmonised procedures for quantification of catchment scale nutrient losses from European catchments	<a href="http://www.euroharp.org/">http://www.euroharp.org/</a> N (12/05)
HarmoniQuA	Harmonising quality assurance in model based catchment and river basin management	<a href="http://harmoniqua.wau.nl/">http://harmoniqua.wau.nl/</a> N (12/05)
HarmoniRiB	Harmonised techniques and representative river basin data for assessment and use of uncertainty information in integrated water management	<a href="http://www.harmonirib.com/">http://www.harmonirib.com/</a> N (03/06)
HarmoniCA	Harmonised modelling tools for integrated basin management	<a href="http://www.harmoni-ca.info">www.harmoni-ca.info</a> N (09/07)
BUFFER	Key nutrient transport mechanisms important for the prediction of nutrient and phytoplankton concentrations in European standing waters	<a href="http://www.buffer.info/">http://www.buffer.info/</a> Y (03/03)
CITYFISH	Modelling ecological quality of urban rivers: ecotoxicological factors limiting restoration of fish populations.	<a href="http://www.biosciences.bham.ac.uk/labs/taylor/CITYFISH.htm">http://www.biosciences.bham.ac.uk/labs/taylor/CITYFISH.htm</a> Y (09/03)
PEGASE	Pesticides in European groundwaters: detailed study of representative aquifers and simulation of possible evolution scenarios	<a href="http://www.brgm.fr/pegase/">http://www.brgm.fr/pegase/</a> N (11/03)
AQEM	Development and testing of an integrated assessment system for the ecological quality of streams and rivers throughout Europe using benthic macroinvertebrates	<a href="http://www.aqem.de/">http://www.aqem.de/</a> Y (02/02)
STAR	Standardisation of river classifications: framework method for calibrating different biological survey results against ecological quality classifications to be developed for the Water Framework Directive	<a href="http://www.eu-star.at/">http://www.eu-star.at/</a> Y (12/04)
FAME	Development, evaluation and implementation of a standardised fish-based assessment method for the ecological status of European rivers a contribution to the Water Framework Directive	<a href="http://fame.boku.ac.at/">http://fame.boku.ac.at/</a> Y (10/04)
STAMPS	Standardized aquatic monitoring of priority pollutants using passive sampling	<a href="http://web.port.ac.uk/research/stamps/">http://web.port.ac.uk/research/stamps/</a> Y (12/05)

## 2.6 Projects related to social and economic aspects of Water Framework Directive

ACRONYM	TITLE	Project URL Results summary available? End date (MM/YY)
FIRMA	Freshwater integrated resource management with agents	<a href="http://www.cpm.mmu.ac.uk/firma/">http://www.cpm.mmu.ac.uk/firma/</a> N (02/03)
STREAMES	Human effects on nutrient cycling in fluvial ecosystems: development of an expert system to assess stream water quality management at reach scale.	<a href="http://www.streames.org/">http://www.streames.org/</a> Y (02/04)
EUWARENESS	European water regimes and the notion of a sustainable status	<a href="http://www.euawareness.nl/">http://www.euawareness.nl/</a> Y (01/02)
SLIM	Social learning for the integrated management and sustainable use of water at catchment scale	<a href="http://slim.open.ac.uk/">http://slim.open.ac.uk/</a> Y (01/04)
ADVISOR	Integrated evaluation for sustainable river basin governance	<a href="http://gasa.dcea.fct.unl.pt/ecoman/projects/advisor/project.htm">http://gasa.dcea.fct.unl.pt/ecoman/projects/advisor/project.htm</a> N (04/04)
HarmoniCOP	Harmonising collaborative planning	<a href="http://www.harmonicop.info/">http://www.harmonicop.info/</a> N (10/05)
MULINO	Multi-sectoral, integrated and operational decision support system for sustainable use of water resources at the catchment scale	<a href="http://www.feem.it/web/loc/mulino/">http://www.feem.it/web/loc/mulino/</a> N (12/03)
MERIT	Management of the environment and resources using integrated techniques	<a href="http://www.merit-eu.net/">http://www.merit-eu.net/</a> N (05/04)
CD4WC	Cost-effective development of urban wastewater systems for Water Framework Directive compliance	<a href="http://www.tu-dresden.de/CD4WC/home/home.html">http://www.tu-dresden.de/CD4WC/home/home.html</a> N (07/06)
AQUADAPT	Strategic tools to support adaptive, integrated water resource management under changing conditions at catchment level: a co-evolutionary approach.	<a href="http://www.aquadapt.net/">http://www.aquadapt.net/</a> N (07/05)

### 3 Updated information on FP5 projects in the 'Quality of Life & Management of Living Resources' Programme

The following projects were identified as relevant to WD research policy in the report of March 2003 and are represented with updated information.

Improved physiological, immunological and molecular tools for the recovery and identification of emerging *campylobacteraceae* in the food and water chain (CAMPYCHECK)

<http://www.campycheck.org> (March 2003 to March 2006)

Scientific knowledge on these pathogens, particularly in the food chain, is still very limited and the real risk that they pose is not yet fully elucidated. The aim of this CAMPYCHECK research project is to address the limitations of current isolation and identification methods and establish the prevalence of these microorganisms in patient and animal faeces and the food and water chain in three different continents. It is expected that practical strategies for control of the pathogen in the food and the water industry will be developed during the course of the project. The data generated will be used in the development of a risk assessment model for emerging *Campylobacteraceae* in the food and water industry in Europe, USA and South Africa.

The University of Southampton, UK provides project management and co-ordination.

Arsenic health risk assessment and molecular epidemiology (ASHRAM)

<http://www.lshtm.ac.uk/pehru/ashram> (December 2002 to December 2005)

This project studies risks, mechanisms and susceptibility in the aetiology of bladder, skin and kidney cancers in relation to arsenic in drinking water. The project will improve quantitative risk assessments, understanding of mechanisms of arsenic toxicity and communication. For locations identified within the study areas where arsenic in drinking water is still high, the project will provide assistance in developing short and long-term strategies for minimising arsenic exposure.

Endocrine disruptors: exploring novel endpoints, exposure, low-dose-and mixture effects in humans, aquatic wildlife and laboratory animals (EDEN)

<http://www.edenresearch.info/> (December 2002 to December 2006)

EDEN will produce data about the occurrence of mixed exposures to EDC in humans and fish and develop new experimental models that allow more meaningful extrapolations from animals to humans. It will produce data about low-dose- and mixture effects of EDC that are directly relevant to hazard and risk assessment. It will provide new insights into indicators of reproductive health of European citizens and will help to produce the scientific basis for a coherent strategy for dealing with EDC in the EU.

Toxic and other bioactive peptides in cyanobacteria (PEPCY)

<http://www.pepcy.de/> (December 2002 to December 2005)

PEPCY aims to: -

Characterise the health hazard caused by peptides in cyanobacteria

Understand the occurrence of these peptides and the key environmental factors influencing occurrence

Develop methods for monitoring and surveillance

Provide a risk assessment framework developed in communication with end users in the public and in environmental health sectors

Provide information to the general public and to professional groups.

A risk assessment of *Cryptosporidium parvum*, an emerging pathogen in the food and water chain (CARAFE)

<http://www.teagasc.ie/publications/2003/conferences/cryptosporidiumparvum/index.htm> (2000 to 2003)

The research had the following objectives:

Development of methods, which can be used to isolate and detect *C. parvum* in food and water samples;

Determination of the survival and infectivity of *C. parvum* in food and water;

Development of procedures for control of *C. parvum* in food and water;

A risk assessment of *C. parvum* in the food and water industry.

The results are summarised as proceedings of a conference in the above website.

## 4 Information on FP6 projects

### 4.1 Sources of information

Within FP6, environmental research is mainly funded under the ‘Global Change and Ecosystems’ (GCE) thematic sub-priority. This has its own website [www.cordis.lu/sustdev/environment/home.html](http://www.cordis.lu/sustdev/environment/home.html) providing information on the research activities to be funded by the EC under this sub-priority as well as environmental research financed through specific activities designed to provide scientific support to policies. At the time of writing (April 2005) it is more accurate to claim that the site redirects one to the EUROPA web portal and the following two sources of project information.

#### 4.1.1 The ‘Scientific Support to Policies’ (SSP) webpages

Found under the FP6 section of the EUROPA portal at [http://europa.eu.int/comm/research/fp6/ssp/index\\_en.htm](http://europa.eu.int/comm/research/fp6/ssp/index_en.htm) and listing the supported projects by theme.

The SSP initiative has three priority areas:

- The sustainable management of Europe’s natural resources
- Improving the health, security and opportunities enjoyed by EU citizens
- Enhancing the economic potential and cohesion of an enlarging Europe

#### 4.1.2 The FP6 major projects library

Found at <http://europa.eu.int/comm/research/fp6/projects.cfm> with an overview of Integrated Projects (IPs) and Networks of Excellence (NoEs) selected so far for **all** the FP6 thematic priorities.<sup>3</sup>

### 4.2 Projects listed under the ‘Scientific Support to Policies’ specific activity of FP6

The webpages referenced in section 4.1.1 above lists projects under the following categories.

Agriculture	Environment and health
Animal health and welfare	Fisheries and Aquaculture
Communicable diseases	Health
Cultural heritage	Migration
Disability	Information society
Economic development and cohesion	Security
Energy	Transport
Environment	

The listed projects have been reviewed and the following have been selected as having relevance to the policy responsibilities of the Water Directorate. If a specific webpage reference is available this is provided.

Harmonised environmental indicators for predicting pesticide risk (HAIR)

Listed under ‘Agriculture’ theme. Start date: 2004. Completion date: 2007.

HAIR will:

- Enable policy-makers to predict the environmental fate of pesticides in aquatic and terrestrial ecosystems
- Facilitate predictions of pesticide exposure for public health policy
- Provide an assessment tool that contributes to the aims of Agenda 2000 and the 6th Environment Action Programme’s thematic strategy on the ‘Sustainable Use of Plant Protection Products’
- Provide a framework for the pesticide usage that complements the role of Directive 91/414/EEC in authorising pesticides

<sup>3</sup> The CORDIS website also has pages dedicated to FP6 project details [www.cordis.lu/fp6/news](http://www.cordis.lu/fp6/news) However, these are only listed after the negotiation and the signature of the contract between the European Commission and the consortia. At the time of writing (April 2004) most GCE projects were absent.

#### Teaming up against infectious diseases in aquaculture (PANDA)

Listed under 'Animal health and welfare' theme. Start date: Jan 2004. Completion date: Feb 2007.  
Specific webpage: <http://www.europanda.net>

PANDA aims to establish an enlarged and permanent European network of experts in aquatic animal health. All known EU -and key non-Union -experts and laboratories will be encouraged to join. Specialised task forces will address the following topics with a view to issuing recommendations to the Commission:

- Risk analysis of exotic emerging and re-emerging disease hazards
- Developing an epidemiology database and advising on methods for disease diagnosis, surveillance, and containment
- Evaluating diagnostic methods (notably their standardisation and validation)
- Environmentally safe disease control strategies
- Training needs and opportunities

#### Reducing the environmental impact of heavy metals (ESPREME)

Listed under the 'Environment' theme. Start date: Jan 2004. Completion date: Dec 2006.

The project will:

- Collate data on the emissions of six common heavy metals – arsenic, cadmium, chrome, lead, mercury and nickel – and on ways of reducing emissions
- Improve models of how heavy metals are transported in the atmosphere, soil and water
- Collect data on exposure levels and thresholds

The results will, amongst other things, provide information for the review of the list of priority substances under the Water Framework Directive.

#### Harmonising bio-waste and soil sampling and analysis (HORIZONTAL)

Listed under the 'Environment' theme.

HORIZONTAL-ORG will develop harmonised standards of sampling and analysis for the following most frequently occurring organic compounds occurring in waste sludge, soil and treated bio-waste:

- AOX (adsorbable organically bound halogens)
- PAH (polycyclic aromatic hydrocarbons)
- PCB (polychlorinated biphenyls)
- DEHP and DBP (endocrine disruptors and phthalates)
- LAS, NP and NPE (all detergent surfactants but NP is also an endocrine disruptor)
- Dioxins and furans
- BFR (brominated flame retardents)
- I.Q.TOOLS Tools for assessing the sustainability of proposed policies

Relationships between ecological and chemical status of surface waters (REBECCA)

Listed under the 'Environment' theme. Start date: Dec 2003. Completion date: Dec 2006.

REBECCA will assess the available data and develop new models to improve the scientific basis for the implementation of the WFD. The project will:

- Collate and organise existing knowledge of relationships between physico-chemical and ecological status in EU waterways
- Determine gaps in the knowledge base and appropriate assessment models
- Identify and test appropriate biological indices of environmental stress
- Develop and validate models and statistical tools for assessing the links between the ecological and physico-chemical quality of water

Harmonising water quality sampling and screening methods (SWIFT-WFD)

Listed under the 'Environment' theme. Start date: Jan 2004. Completion date: Dec 2006.

Specific webpage: [http://www.ema.fr/infos\\_recherche/i\\_recherche\\_LGEI-Swift.html](http://www.ema.fr/infos_recherche/i_recherche_LGEI-Swift.html)

The project will develop robust and effective protocols for harmonised, "low-cost" water quality assessment across the EU in support of the Water Framework Directive. A set of guidelines will be developed to assist policy-makers and water managers – including those in small and medium-sized enterprises – adopt effective water strategies. The project will inform policy-makers on the potential socio-economic consequences of implementing and maintaining new monitoring programmes.

#### 4.3 Projects listed under the 'Global Change and Ecosystems' thematic sub-priority

The webpages referenced in section 4.1.2 above lists projects under the various FP6 themes. The projects listed under the GCE sub-priority have been reviewed and the following have been selected as having relevance to the policy responsibilities of the Water Directorate. If a specific webpage reference is available this is provided.

Integrated Project. Assessing large-scale environmental Risks with tested Methods (ALARM)

The strategic objectives of ALARM are to develop an integrated large-scale assessment of the risk to bio-diversity, and terrestrial and freshwater ecosystems, including those risks arising from: climate change; environmental chemicals; biological invasions; and the loss of pollinators. ALARM will establish socio-economic risk indicators related to the drivers of pressure on bio-diversity.

Integrated Project. Ensemble-based Predictions of Climate Changes and their Impacts (ENSEMBLES)

This will develop an ensemble prediction system for climate change based on state-of-the-art high-resolution European Earth System models. For the first time an objective probabilistic estimate of the uncertainty in future climate at the seasonal, decadal and longer time scales will be produced. The system will directly incorporate agriculture, health, food security, energy, water resources, insurance and weather risk management. Important contributions to the IPCC and the UNFCCC are expected.

Integrated Project. Integrated flood risk analysis and management methodologies (FLOODsite)

FLOODsite will develop methodologies and tools for inland, estuarine and coastal flood risk analysis and management by integrating hazard, vulnerability and risk assessments. The overall aim is that of sustainable flood mitigation and defence, recognising the complex interaction between natural bio-physical and socio-economic systems to support spatial and policy planning in the context of global change and societal advance.

Integrated Project. Evaluate the Impacts of Global Change on European Freshwater Ecosystems (EURO-LIMPACS)

EURO-LIMPACS focuses on the key drivers of aquatic ecosystem change (land-use, nutrients, acid deposition and toxic substances) and examines their interactions with climate, change, using time-series analysis, space-for-time substitution, palaeolimnology, experiments and process modelling. A central activity is the development of a toolkit for integrated catchment analysis and modelling to simulate hydrological, hydrochemical and ecological processes at the catchment scale for use in assessing the potential impact of global change under different climate and socio-economic scenarios.

Integrated Project. Understanding river-sediment-soil-groundwater interactions for support of management of water bodies (river basin & catchment areas)

Main objectives are: 1) quantify the relevant processes likely to be affected by climate change; 2) early identification of adverse trends in water quantity and quality; 3) development of integrated numerical soil-water system models reflecting all relevant transport processes at various scales.

## 5 Concluding comments

Information on FP5 projects in Key Action 1 (*Sustainable Management & Quality of Water*) can now be obtained conveniently by accessing the library website dedicated to providing “public access to obtained project results” (<http://forum.europa.eu.int/Public/irc/rtd/eesd/watkeact/library>). Section 2.1 describes how WD staff may use this to identify research relevant to their specific interests. In addition, Sections 2.2 to 2.6 contain shortlists of what we believe are relevant projects in certain key policy areas.

At the time of writing (April 2005) limited project details are available for the FP6 projects in the work programmes relevant to WD interests. The best sources of information have been found to be the following two sites on the EUROPA portal.

- The FP6 major projects library <http://europa.eu.int/comm/research/fp6/projects.cfm> with an overview of Integrated Projects (IPs) and Networks of Excellence (NoEs) selected so far for **all** the FP6 thematic priorities.
- The ‘Scientific support to policies’ webpages [http://europa.eu.int/comm/research/fp6/ssp/index\\_en.htm](http://europa.eu.int/comm/research/fp6/ssp/index_en.htm)