



**British  
Geological Survey**

NATURAL ENVIRONMENT RESEARCH COUNCIL



[www.bgs.ac.uk](http://www.bgs.ac.uk)

# HYDRA workshop 20 May 2008

## BGS research activities

Maclean Building  
Crowmarsh Gifford  
Wallingford OX10 8BB  
Tel 01491 838800

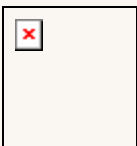
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# BGS resources

[www.bgs.ac.uk](http://www.bgs.ac.uk)

- 50 hydrogeoscientists across BGS
  - 40 at Wallingford
  - 4 at Edinburgh
  - 5 at Keyworth
  - 1 at Belfast
- Immediate access to other geoscientists
- Laboratory facilities (incl. NIGL – e.g.  $\text{PO}_4$ )
- National data archives (incl. National water archive)

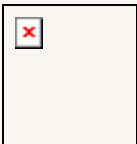


# Funding sources

www.bgs.ac.uk

- SB – National Capability and Research Programme (55%)
- CR – EA, SEPA, Water companies, DEFRA, DfID, World Bank, EC, EU (40%)
- Grants – NERC and other research councils (5%)
- Co-funding (inc. above)

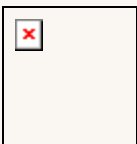
*INTEGRATED PROGRAMME OF ACTIVITIES*



# Groundwater Resources Science Programme

www.tgs.ac.uk

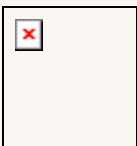
- **Groundwater survey and management:** Regional studies (currently the Thames Basin), baseline quality, national datasets and monitoring etc.
- **Groundwater processes:** Recharge, unsaturated zone flow and transport, groundwater-surface water interaction, the hyporheic zone, nitrate fluctuations, colloidal transport etc.
- **Groundwater extreme events:** Groundwater flooding, response of groundwater to increased climate variability including drought etc.
- **Groundwater modelling:** Process understanding and development of modelling technology.



# Groundwater science

www.tgs.ac.uk

- **Groundwater pollution:** Point-source, e.g SABRE
- **Information delivery:** Web-based working and delivery, both internal and external
- **Information products:** Derived products – flooding susceptibility, geochemical properties etc.
- **Urban development and Sustainable Soils**
- Thames Basin and Clyde Basin super-projects
- National Water Archive
- Research programmes – LOCAR and currently FREE
- Current initiatives –
  - hydroecology of lowland catchments
  - DfID-NERC research into environmental services
  - EC framework programme 7



# Hydroscience strategy

www.bgs.ac.uk

- Part of BGS science strategy – currently being developed
- Increase cross-cutting science at both geology and hydrology/ecology ends of spectrum
- Increase Hydro staff at KW – recruitment, retraining, voluntary relocation
- Increase interaction with other institutes (CEH), universities and disciplines.
- Water quality labs to KW (Retain Env. Tracer and Phys. Props labs plus facilities to service fieldwork)

