

# Training and Support

## Information, documentation and activities

Many resource providers offer their own comprehensive information, documentation and training; please consult their web pages for further information.

In addition the Resource Guide Adviser for Geography and the Environment can liaise with providers, acting in a coordinating role for groups of staff and students in Higher Education who wish to attend awareness-raising activities designed to promote effective use of the resources for learning, teaching and research.

## FREE training and support activities offered by the Resource Guides include:

### Presentations

A summary of the types of resources available in the Resource Guide for Geography and the Environment that can be delivered as part of a meeting, seminar or similar event. This could be a generic presentation on all seven Resource Guides or subject specific. Contact the Resource Guide Adviser to discuss your requirements.

### Workshops

A hands-on exploration of the resources included in the Resource Guide for Geography and the Environment that is available in the following formats:

- Overview – an introduction to all of the resources listed in the Guide
- Customised – an introduction to selected resources listed in the Guide
- Subject-focused – an introduction to selected resources that are available in a particular subject area

### Combined events

A combination of any of the above activities can be tailored to suit your needs; contact the Resource Guide Adviser to discuss your requirements.

### FREE training materials

The materials used in the workshops and other events are available to download free for educational use from the training section of our web site. These materials have been designed to support your own training and awareness raising activities.

### Interested in hosting an event?

The Resource Guide for Geography and the Environment can help with content for research and information-training skills programmes. Activities can take place as part of another event eg conference, training or staff development programme; please contact the Resource Guide Adviser to discuss your requirements.

## Further information

To discuss workshop or other event opportunities, contact:

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Oxford Road  
Manchester  
M13 9PP

Email: [adam.gardner@man.ac.uk](mailto:adam.gardner@man.ac.uk)

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Fax: 0161 273 7488

Visit the **Resource Guide for Geography and the Environment** web site

Our web site features the most up-to-date information about the resources we cover:

<http://www.jisc.ac.uk/resourceguides/geoenv/>

For regular updates on developments within the **Resource Guide for Geography and the Environment**, sign up to the JISCmail announcements list at:

<http://www.jiscmail.ac.uk/RG-GEOENV-ANNOUNCE.html>

## What about resources in other subject areas?

The JISC has provided support for Resource Guides in seven subject areas:

- Arts and Humanities
- Engineering, Mathematics and Computing
- Geography and the Environment
- Health and Life Sciences
- Hospitality, Leisure, Sport and Tourism
- Physical Sciences
- Social Sciences

To find out about resources and Resource Guide activities in these other subject areas visit:

[www.jisc.ac.uk/resourceguides](http://www.jisc.ac.uk/resourceguides)

## Who funds the Resource Guides?

The Joint Information Systems Committee (JISC) supports post-16, higher education and research by providing services, advice and development programmes to help them exploit Information and Communications Technology (ICT) in teaching, learning, research and administration. JISC is funded by all the UK post-16 and higher education funding councils.

To request **FREE** copies of this flier for distribution, complete the online form at:

[www.jisc.ac.uk/resourceguides](http://www.jisc.ac.uk/resourceguides)

Resource Guide for



# Geography and the Environment

An overview of quality-assured information about electronic resources and support services, selected by subject specialists:

- Resources for providing information, data, materials and services – accessible via the Internet and designed specifically to support your learning, teaching and research at all levels of higher education
- User education support materials, presentations and workshops to help those providing information skills training in higher education institutions

*Subject areas include:*

*Human Geography*

*Physical Geography*

*Environmental Science*

*Environmental Studies*

*Techniques and Approaches*



Visit our web site for the most up-to-date information about the resources we cover.

[www.jisc.ac.uk/resourceguides](http://www.jisc.ac.uk/resourceguides)



## *How to access the resources*

All of the resources covered by the Guide (or information about them) can be accessed via the Internet.

### **Which resources can I use?**

Access to the resources will vary with each educational institution, and will vary between resources. The resource descriptions in this Guide note briefly any general access conditions that apply. A key to these is given opposite.

### **Do I need a password?**

This will vary between institutions, and resources. Where access to a resource is subject to conditions or subscription, or if you are off-campus, you may be required to provide a password.

Many password-protected resources ask for an Athens password. Your library/information service will be able to provide you with further details.

### **What do I do next?**

To find out about the resources available to you, any registration procedures, or if you are unsure about access to a particular resource, consult your Institutional Library and/or Information Service.

## *What types of resource are in this guide?*

### **Bibliographic Information**

Searchable resources for sourcing and locating research material, including: abstracts, indexes and tables of contents of journals, conference proceedings and dissertations; library catalogue information and archive material.

### **General Reference**

A range of resources for sourcing and locating reference material for your learning, teaching and research needs.

### **Publications Online**

Publications, which include books, journals, pamphlets, abstracts, monographs and full-text articles that can be viewed online and saved for your reference. The level of access, eg full-text, will depend on your institutional subscription. Consult your library for information regarding subscriptions and access conditions.

### **Subject gateways**

Subject-based catalogues of Internet resources, which have been selected, evaluated and classified by subject specialists in accordance with criteria designed to ensure resource quality.

### **Data and multimedia resources**

#### **Mapping and remote sensing**

Digital mapping and satellite imagery resources available online.

#### **Economic and social datasets**

Access to data from a number of governmental, national and international organisations, and a range of web-based interfaces and tools for visualising and analysing the data.

#### **Environmental datasets**

Datasets from quantitative studies, including long-term earth system science datasets, environmental survey data and habitat data.

#### **Multimedia resources**

On line film and video resources available for download.

### **Learning and teaching**

Resources developed to support learning and teaching practices (including the provision of learning method case studies, advice, software and guidance on their integration into the curriculum) and also online self-learning packages and tutorials.

### **Support services**

A range of services to encourage and develop the use of networked information within the education community. These services provide advice, information and training in the effective use of electronic resources and address legal and organisational implications of using them.



## Key to access categories

- **Freely available** – the resource is free of charge, with no restrictions on access.
- **Conditionally free** – the resource (or part of it) is freely available under certain conditions. These usually relate to your status (you should usually be a member of a UK further or higher education institution), but they may also require you to register, either online or through a site representative. Registration is usually only required if the resource provider wishes to know who is using the resource to monitor, for example, sensitive data (eg the Census). Consult your librarian or the resource provider's web pages for advice about access conditions.

- **Institutional subscription** – the resource (or part of it) can be accessed only if your institution holds a subscription/licence (in general, you will not need an individual subscription, although these are sometimes offered). Resource providers may use a variety of methods to control online access to a subscription resource, such that they may only be accessed on-site at your institution, or via dial-up access through your institution, or may have password-controlled access. Personal registration may also be required. Consult your library or information service for further information about subscription resources.

Please note, some resources will have more than one access category. Where this applies, you will read the phrase '**Multiple access categories**'.

*Access categories were accurate at the time of print, but access policies may be subject to change.*

## Search tips

*A brief guide to effective and happy searching*

### Selecting a resource

Ask yourself:

- Why am I looking for information? eg to research a topic
- What type of information am I looking for? eg books, journals, learning materials
- Which resource/s are most likely to contain the type of information I am looking for?

Then:

- Consult your local library to find out about the resources available to you

Before you begin, devise a search strategy:

1. Think about your topic or area of interest and ask yourself questions to clarify your ideas.
2. Define your topic in one phrase, eg wetland habitat conservation strategy.
3. Split your phrase into concepts:

#### Concept 1

Wetland

#### Concept 2

Conservation

4. For each concept, make a list of alternative terms that could also be used to describe the concept:

#### Concept 1

Wetland

Marsh

Bog

Fen

#### Concept 2

Conservation

Management

Preservation

Many resources include international coverage, so ensure you consider:

- Differences in spelling for different nationalities, eg American English
- The terms used to describe the concept in other disciplines (if appropriate)

### Gaining worthwhile results

ASSUME NOTHING: each resource is unique!

- Most searchable resources share some common features, but many operate in a unique way
- Use the online help to find out about the search features of each resource – there are no standard methods by which resources interpret your search terms or expressions

If you don't get the results you anticipated, you might need to refine your search:

- Use synonyms to replace any terms that are causing unwanted results
- Add or remove one of your concepts
- Widen or narrow your search by using the features offered by the resource (consult the help)
- Resource features are subject to change: consult the online help for the latest information

Think about resource quality:

- If you are using a subject gateway, remember the quality control criteria will have been applied to the resource that the results describe
- You should undertake your own evaluation of any resources that are linked from – but not part of – that site

For advice on evaluating Internet resources, use the Internet Detective at:  
[www.sosig.ac.uk/desire/internet-detective.html](http://www.sosig.ac.uk/desire/internet-detective.html)

## Bibliographic information

Searchable resources for sourcing and locating research material, including: abstracts, indexes and tables of contents of journals, conference proceedings and dissertations; library catalogue information and archive material.

### Online catalogues

#### COPAC

Provides free access to the online catalogues of the British Library, National Library of Scotland and 23 university research libraries in the UK and Ireland, covering all subjects. Documents date from around AD1100 onward and approximately 300 languages are covered. Records represent a wide range of materials and increasingly incorporate links to the full-text of the document. Three search interfaces (www, telnet and Z39.50) are available. *Freely available.*  
<http://copac.ac.uk>

#### SALSER

A union catalogue of serials holdings of all Scottish universities, the municipal research libraries of Edinburgh and Glasgow, numerous smaller Scottish research libraries and the National Library of Scotland. Through SALSER, users can not only discover which serials are held where, they can also connect to the participating libraries' Online Public Access Catalogues (OPACs) for more detailed holdings information. *Freely available.*  
<http://edina.ed.ac.uk/salser>

#### Scirus

Science-specific search engine that simultaneously searches over 105 million web sites and journal services across 21 subjects including Earth & Environmental Sciences. In addition to indexing only scientific web sites, Scirus finds peer-reviewed articles from access-controlled journal databases such as ScienceDirect and IDEAL. *Freely available.*  
<http://www.scirus.com>

#### zetoc Electronic Table of Contents

Provides access to the British Library's database of journal articles and conference proceedings, which includes approximately 20,000 current journals and 16,000 conference proceedings published per year. With around 20 million records, it covers all fields of academic study, and it is updated daily with around 8,000 records. The zetoc Alert service sends you emails matching pre-defined searches for journals, authors and keywords whenever relevant new data are entered. Copies of all the items are available from the British Library's Document Supply Centre. *Conditionally free.*  
<http://zetoc.mimas.ac.uk>

### Online databases

#### AGDEX

An extensive database, updated weekly, of around 100,000 records from the agricultural press, compiled since 1971 by the Scottish Agricultural College. Sources covered include the farming press, trade and business literature, advisory publications, research and development literature, and scientific journals. *Institutional subscription.*  
<http://edina.ac.uk/agdex>

#### British Official Publications Current Awareness Service (BOPCAS)

A current awareness service offering details of recent British Official Publications including government department and parliamentary publications, White Papers, Green Papers and House of Commons Library Research Papers. Over 17,000 references from July 1995 to present, updated every week. Includes subject indexing, abstracts of key documents and full-text links (where available). Email alerts available. *Institutional subscription.*  
<http://www.bopcas.com>

#### British Official Publications Collaborative Reader Information Service (BOPCRIS)

Bibliographical database of key 19th- and 20th-century British Official Publications from 1833–1983. Search or browse over 18,000 references from 1688–1800, 1833–1983 by author, subject, time period, publication type. Records are being enhanced at present to include abstracts, subject indexing and in the future will also feature document location information and full text of key documents. *Conditionally free.*  
<http://www.bopcris.ac.uk>

#### BUFVC British Universities Newsreel Database (BUND)

A database of British cinema newsreels from 1910 to 1979. Contains 160,000 records from 21 newsreels and cinemagazines, 80,000 digitised newsreel production documents, and a wide range of information resources, including oral history recordings, film availability sources, and online articles. 40,000 records link to free low resolution downloadable copies from the British Pathé web site. *Freely available.*  
<http://www.bufvc.ac.uk/newsreels>

#### BUFVC HERMES

An online database of over 25,000 audio-visual programmes in distribution in the UK. Entries are selected for their usefulness in HE/FE and include films, video recordings, DVDs, slides, sound recordings, tape-slide packages, and interactive multimedia. HERMES includes information on catalogues of 1,000 distributors of audio-visual programmes and over 1,500 books and several thousand journals held in the BUFVC library. *Freely available.*  
<http://www.bufvc.ac.uk/hermes>

#### CAB Abstracts

Bibliographical database covering research and development literature in the fields of agriculture, forestry and the management and conservation of natural resources. Abstracts for over 95% of the 150,000 records that are culled each year from over 14,000 serial titles, books, technical reports, proceedings, patents, bibliographies, translated journals and published theses. Records from 1973 onwards. Updated quarterly. *Institutional subscription.*  
<http://edina.ac.uk/cab>

#### Geobase

Geobase is a unique multidisciplinary database supplying bibliographical information and abstracts for human and physical geography, ecology, geology, oceanography, geomechanics and development studies. The database provides current coverage of over 2,000 primary journals, books, monographs, reports and theses. Geobase contains over a million records from 1980, with 72,000 records added annually. Each Geobase record contains full bibliographical citation, indexing terms and codes, and almost all records contain abstracts. *Institutional subscription.* *Geobase is available from several distributors – please consult your library for information concerning access to your institution's package.*  
<http://www.elsevier.com/inca/publications/store/4/2/2/5/9/7/index.htm>

#### GeoRef

The GeoRef database covers the geology of North America from 1785 to the present and the geology of the rest of the world from 1933 to the present. The database includes references to all publications of the US Geological Survey. Masters' theses and doctoral dissertations from US and Canadian universities are also covered. To

maintain the database, GeoRef regularly scans more than 3,500 journals in 40 languages as well as new books, maps and reports. Each month between 6,000 and 7,000 new references are added to the database. *Institutional subscription.* *GeoRef is available from several distributors – please consult your library for information concerning access to your institution's package.*  
<http://www.georef.org>

#### International Bibliography of the Social Sciences (IBSS)

Bibliographical database with an international focus covering social sciences and a wide range of interdisciplinary subjects including geography and environment. Dating back to 1951 and updated weekly, the 2 million records include journal articles and books, reviews and selected chapters from over 100 countries, with English language abstracts for 50% of current journal articles. *Conditionally free.*  
<http://www.ibss.ac.uk>

#### ISI Web of Knowledge Service for UK Education

Provides a single route of access to ISI databases, including:

- **ISI Journal Citation Reports**, the only source of citation data on journals including science, technology and social sciences. For the sciences, 5,000 titles are indexed, and for the social sciences there are 1,500. Updated annually.
- **ISI Web of Science**, providing access to the Science Citation Index, Social Sciences Citation Index, Arts & Humanities Citation Index and other important scientific databases of 8,500 research journals. The cited reference search facility enables users to retrieve articles, abstracts, editorials, letters, reviews, and cited references. Updated weekly.

*Institutional subscription.*

<http://wok.mimas.ac.uk>

#### NISS Directory of Networked Resources

The NISS Directory of Networked Resources is the Library and Information Service of the NISS 'virtual campus'. Subjects are catalogued as for a library, but the final product is an electronic resource rather than a book. Subject categories include Social Science, Environmental Science, Earth Sciences (for Physical Geography) and Geography. *Conditionally free.*  
<http://www.niss.ac.uk/subject>

#### UPDATE

Published references on farming, the countryside and the environment. Covering the popular press as well as scholarly journals on agriculture, countryside management and environmental change. The index includes articles from over 750 publications covering the years from 1990 to the present and is updated weekly, serving as both a current awareness service and an expanding archive of literature. *Institutional subscription.*  
<http://edina.ac.uk/update>

### Archive material

#### Archives Hub

A major national gateway providing free access to descriptions of archives and manuscript collections held in UK universities and colleges. The service covers archives in around 60 academic institutions and is growing rapidly, with approximately 15,000 collection descriptions at present. The wide range of material has relevance to many areas of research and many collection descriptions are available online for the first time. *Freely available.*  
<http://www.archiveshub.ac.uk>

## REGARD

Searchable database that is a key source of information on Economic and Social Research Council (ESRC)-funded research. Information is available on initial projects, the research results, all publications and outputs. Outputs include books, journal and newspaper articles, conference papers, media broadcasts and software. Contains over 80,000 records covering research from 1984 to the present and is updated daily. *Freely available.* <http://www.regard.ac.uk>

## Statistical Accounts of Scotland

The online digitised edition of the first and second Statistical Accounts of Scotland. Presented as a searchable database of the entire contents of the accounts that were produced during the 1790s and 1830s. Compiled as an early census by all Scottish church ministers completing a set of questions relating to the geography, industry, people and miscellaneous issues for their parishes. *Freely available (enhanced subscription service available).* <http://edina.ac.uk/StatAcc>

## The Times Digital Archive 1785-1985

Provides convenient access to every complete page of every issue of *The Times* (excluding the *Sunday Times*) from 1785 to 1985. Available in full page and clipped article images of original published context, the database delivers a complete virtual chronicle of history of the 19th and 20th centuries. *Institutional subscription.* <http://www.galegroup.com/Times>

## General reference

A range of resources for sourcing and locating reference material for your learning, teaching and research needs.

### Oxford Reference Online

Provides a single cross-searchable resource of Oxford University Press reference works. Simple and advanced search fields are available, and results are ranked according to relevance. A variety of reference materials are available, under the broad subject headings of Politics and Social Sciences, Earth & Environmental Sciences, Biological Sciences and General Reference. *Institutional subscription.* <http://www.oxfordreference.com>

### xreferplus

Digital reference library of approximately 100 high-quality reference books from the world's leading publishers. Offers access to over 1.5 million individual entries and contains all types of reference books including dictionaries, encyclopaedia, thesauri, books of quotations and atlases, together with subject-specific titles including Physical Geography, Human Geography and Ecology & Environmental Management. Also includes thousands of images and MP3 audio

files. Updated weekly. *Institutional subscription.* <http://www.xreferplus.co.uk>

## Publications online

Full-text publications that can be viewed through the Internet and saved for your reference. Many of these offer search facilities. *The range of publications available online is vast but subscriptions vary enormously between institutions. It is not possible to adequately list all those that could be available to you; please consult your institutional library to discover which publications your institution has subscriptions for and for specific information regarding access conditions.*

### Early Pamphlets in Social Policy

Pamphlets from the 18th, 19th and early 20th centuries covering social policy are available to print or download free. Topics covered include the poor and origins of the welfare state, health, housing, pensions and unemployment insurance. *Freely available.* [http://www.lse.ac.uk/library/pamphlets/SocialPolicy/social\\_policy\\_pamphlets.htm](http://www.lse.ac.uk/library/pamphlets/SocialPolicy/social_policy_pamphlets.htm)

### Early Pamphlets in Transport History

Pamphlets from the 18th, 19th and early 20th centuries covering transport history are available to print or download free. Topics covered include railways, canals, roads, urban transport, transport workers and transport policy. *Freely available.* [http://www.lse.ac.uk/library/pamphlets/Transport/transport\\_pamphlets.htm](http://www.lse.ac.uk/library/pamphlets/Transport/transport_pamphlets.htm)

### JSTOR

A unique digital archive collection of core scholarly journals, starting with the first issues (many from the 1800s) and continuing to between two and five years before the current issue. Users can search and browse the full-text of the journals, and articles can be read online, or downloaded and printed. Contains over 3 million full-length articles in Geography, Ecology and General Science. New titles are added regularly. *Institutional subscription.* <http://www.mimas.ac.uk/jstor>

### NESLI2

NESLI2 (formerly JISC E-journal Activities) delivers a national electronic journal service to the UK academic community, using a single licence to simplify the process for librarians and publishers

alike. A number of publishers are involved in NESLI/JISC deals, and links to a list of publishers and to latest announcements can be found on the web site. *Institutional subscription.* <http://www.nesli.ac.uk>

### PCI Full Text

Indexes thousands of humanities and social sciences journals from 1770 to 1990 and contains millions of bibliographical records to journal articles. PCI Full Text also provides the images of the full text of a growing number of these journals. *Institutional subscription.* <http://pcift.chadwyck.co.uk>

### Statistical Accounts of Scotland

The online digitised edition of the first and second Statistical Accounts of Scotland. Presented as a searchable database of the entire contents of the accounts that were produced during the 1790s and 1830s. Compiled as an early census by all Scottish church ministers completing a set of questions relating to the geography, industry, people and miscellaneous issues for their parishes. *Freely available. (Enhanced subscription service available.)* <http://edina.ac.uk/StatAcc>

## Subject gateways

Subject-based catalogues of Internet resources, which have been selected, evaluated and classified by subject specialists in accordance with criteria designed to ensure resource quality.

### GEsource

GEsource is an information resource for Geography and the Environment, and forms part of the Resource Discovery Network (RDN – [www.rdn.ac.uk](http://www.rdn.ac.uk)) of eight separate subject-based information gateways. GEsource catalogues high-quality information in the following areas: Environment, General Geography, Human Geography, Physical Geography and Techniques and Approaches (including satellite data, GIS and remote sensing). *Freely available.* <http://www.gesource.ac.uk>

### Gigateway™

Provides free access to public and private sector geographical information. Gigateway's data locator enables users to quickly discover what geographical data are held by the public

and private sectors. The service indexes information on environment, agriculture, government and utility infrastructure, economy and land-use, and offers advice and guidance on creating geographical datasets. *Freely available.* <http://www.gigateway.org.uk>

### NBN Gateway

Gateway to data holdings of UK conservation, environmental and ecological organisations. Indexes datasets on aquatic and terrestrial plants, animals and habitats, including information on sensitivity, vulnerability and taxonomy. Also includes GIS coverage of specific areas and an online population mapping facility. Part of the National Biodiversity Network. *Conditionally free.* <http://www.searchnbn.net>

### NERC MetaData Gateway

Searches simultaneously the catalogues of data held at the Antarctic Environmental Data Centre (AEDC), the British Atmospheric Data Centre (BADC), the British Oceanographic Data Centre (BODC), the Environmental Information Centre (EIC), the British Geological Survey (BGS) and the Earth Observation Data Centre (EODC). Simple free-text, geospatial and temporal searches can be performed. The search results will list relevant datasets from which further information regarding the data, including access restrictions, can be obtained. *Conditionally free.* <http://www.nmp.rl.ac.uk>

## Data and multimedia resources

Environmental datasets (including long-term earth system science datasets, environmental survey data and habitat data); digital mapping and satellite imagery resources; access to economic and social datasets from governmental, national and international organisations; and online film and video.

### Mapping and remote sensing

#### Bartholomew Digital Map Data

Layered vector map dataset comprising point, line and area features. The dataset is structured into both geographical areas and thematic layers. Several databases support different scale cartography in raster and vector formats including: London at 1:5000, GB at 1:10 000 & 1:250 000, Europe 1:1 million and the World at 1:5 million. *Institutional subscription.*  
<http://www.mimas.ac.uk/spatial/maps/barts>

#### Digimap

Delivers Ordnance Survey digital map data to UK higher education. Data can be downloaded raw (for use within a GIS) or as maps produced in real time online. An online gazetteer is available for place-name searches, and postcode data are available with mapped postal boundaries. Digimap also allows advanced cartographic tasks such as user-specified scaling, multiple datasets on one map and large format (up to A0) printing. *Institutional subscription.*  
<http://www.edina.ac.uk/digimap>

#### Landmap

Landmap provides a unique set of re-usable reference data products. Data are provided as orthorectified satellite image mosaics of Landsat, SPOT and ERS radar data and a high-resolution (30 m) Digital Elevation Model for the British Isles, and are available in formats suitable for GIS, desktop publishing and image processing software. *Institutional subscription.*  
<http://www.landmap.ac.uk>

#### MIMAS Satellite Data

Data from three satellite platforms are available: ERS radar remote sensing data used in the understanding of the Earth's processes, with special emphasis on ocean and ice themes; Landsat thematic mapper (TM) imagery used in land cover applications; and SPOT imagery used for land-cover mapping and digital terrain modelling. This imagery is complex and usage requires expertise in remote sensing. *Institutional subscription.*  
<http://www.mimas.ac.uk/spatial/satellite>

#### UKBORDERS: Digitised Boundary Data

Searchable database of contemporary and historical digitised boundary datasets of the UK, including census boundaries, EU NUTS units, SSSIs, LNRs, NNRs and Police Command Units. Enables users to map data to different geographies. The boundary datasets are available in many GIS formats for users to download. *Conditionally free.*  
<http://www.edina.ac.uk/ukborders>

### Economic and social datasets

#### 2001 Census Data Programme

Provides a centralised entry point to the emerging data resources for the 2001 Census and those of previous Censuses since 1971. Individual Data Support Units provide the major focus of the activities of the programme and are linked directly from the site:

- The **Census Dissemination Unit** (CDU) at MIMAS supports the Census Aggregate Statistics for 1971–2001 (including Small Area Statistics and Local Base Statistics), Derived Datasets (eg deprivation indices) and Associated Datasets (eg postal look-up tables)

- The **UKBORDERS** service at EDINA supports digitised Census boundary data for mapping
- The **Census Interaction Data Service** (CIDS) supports the Special Migration Statistics and Special Workplace Statistics for information on geographical patterns of employment and migration
- The **Cathie Marsh Centre for Census and Survey Research** (CCSR) supports the Samples of Anonymised Records for fine-detail studies of sample individual (but anonymous) Census entries
- The **Centre for Longitudinal Study Information and User Support** (CeLSIUS) supports the Longitudinal Study, a dataset comprising linked event records for 1% of the population of England and Wales

Most services are accessible via Athens Single Sign-On through the Census Registration Service (<http://census.data-archive.ac.uk>). Additional restrictions apply to the CeLSIUS service: consult the web site for further information. *Conditionally free.*  
<http://www.census.ac.uk>

#### Economic and Social Data Service (ESDS)

Provides preservation, dissemination, user support and training for an extensive range of economic and social data, both quantitative and qualitative. ESDS provides an integrated service offering enhanced support for the secondary use of data across the research, learning and teaching communities. It holds several thousand datasets in four specialist data services:

- **ESDS Government** facilitates more effective use of large scale government surveys, such as the General Household Survey, Expenditure and Food Survey, Family Resources Survey and the Labour Force Survey
- **ESDS International** provides access and support for a range of international macro and micro data sources including National Statistics Time Series Data, major international databases from UNIDO, and OECD Main Economic Indicators which contain data on national accounts, industrial production, employment, prices, business trends, finance and trade for the major world economies
- **ESDS Longitudinal** supports key UK longitudinal data collections including the British Household Panel Survey (BHPS), the British Cohort Study 1970 (BCS70), the National Child Development Survey (NCDS) and the Millennium Cohort Study (MCS)
- **ESDS Qualidata** provides enhanced access and support for a range of multimedia qualitative data sources. Data supported include: in-depth and semi-structured interviews, focus groups, field notes and observations, personal documents and photographs. ESDS Qualidata also provides advice on the archiving and re-use of qualitative data

Access to these services is complex; for further details visit the 'Accessing data' section of the web site. *Conditionally free.*  
<http://www.esds.ac.uk>

#### UK Data Archive

The UK Data Archive holds several thousand datasets for the social sciences and humanities, which it makes available for research and teaching. Data are acquired from many different sources including central government, academic researchers, opinion poll organisations and other data archives worldwide. *Conditionally free.*  
<http://www.data-archive.ac.uk>

### Environmental datasets

#### Archaeology Data Service (ADS)

Supports research, learning and teaching with high-quality and dependable digital resources. It disseminates a broad range of data relevant to geographers and environmentalists from the areas of archaeology, cultural heritage and the historic environment, providing a catalogue to 450,000 fieldwork projects and SSIs, with data archives where appropriate. *Freely available.*  
<http://ads.ahds.ac.uk>

#### MarLIN

The Marine Life Information Network (MarLIN) is the most comprehensive and easily used source of information about marine habitats, communities and species around Britain and Ireland, and their sensitivity to natural events and human activities. The service aims to improve the access, display and interpretation of information in support of environmental management, protection and education. *Freely available.*  
<http://www.marlin.ac.uk>

#### NASA Global Change Master Directory (GCMD)

Data collection 'super-site' for Earth System Science, providing descriptions of data sets and services relevant to global change research. The GCMD database includes descriptions of datasets covering agriculture, the atmosphere, biosphere, hydrosphere and oceans, snow and ice, palaeoclimatology, and human dimensions of global change. Many datasets are available online and many more are available through the relevant data centre. Also available is a comprehensive suite of data tools and services. *Freely available.*  
<http://gcmd.gsfc.nasa.gov>

#### UK National Air Quality Information Archive

An extensive database of statistics relating to air quality in the UK from 1960 to the present day. The database contains tables of measured concentration data and statistics from the monitoring networks operated on behalf of DEFRA and the devolved administrations. Search options permit queries using geospatial, temporal and pollutant terms, and real-time data are available direct from the monitoring network. *Freely available.*  
<http://www.airquality.co.uk/archive/index.php>

#### World Data Centres

The World Data Centres hold extensive datasets on Earth System Science, including palaeoclimatology, seismology, meteorology, satellite information, glaciology, marine environment and human interactions with the environment. Provision varies between centres, but many offer free data downloads and advanced geospatial searching. Accessible from the US National Geophysical Data Centre. *Freely available.*  
<http://www.ngdc.noaa.gov/ngdcinfo/wdc.html>

### Multimedia resources

#### Education Media Online

A JISC-funded set of ten collections of non-fiction film and video (and their associated metadata), comprising 300 hours of high-quality material for download. The collection is fully indexed and searchable, may be downloaded either in full or as segments, and can be used freely in learning, teaching and research. *Conditionally free.*  
<http://www.emol.ac.uk>

## Learning and teaching

Resources developed to support learning and teaching practices (including the provision of learning method case studies, advice, software and guidance on their integration into the curriculum) and also online self-learning packages and tutorials.

### Teaching resources

#### BUFVC Television and Radio Index for Learning and Teaching (TRILT)

TRILT offers the most extensive television and radio listings database available online, covering more than 300 UK channels. Data are available ten days before broadcast and are retained online. Valuable records are enhanced with additional information. Users can also receive alerts for forthcoming programmes. *Freely available.*  
<http://trilt.bufvc.ac.uk>

#### Casweb

Offers a web interface to browse the tables, search by keyword and extract data from the 1981/1991 Census Aggregate Statistics. Digitised Boundary Data (DBD) registered users can select areas on a map of the UK. Used for undergraduate and postgraduate teaching and project work. Online help available. *Conditionally free.*  
<http://census.ac.uk/casweb>

#### LTSN GEES

The national subject centre for Geography, Earth and Environmental Sciences – one of 24 discipline-based centres that form the UK-wide Learning & Teaching Support Network. The subject centres support the sharing of innovation and good practices in learning and teaching including the use, where appropriate, of Information and Communications Technology (ICT). *Freely available.*  
<http://www.gees.ac.uk>

#### LTSN GEES Resource Database

Web-based database that holds information about learning, teaching and assessment resources for geography, earth and environmental science academics in higher education. The

database covers both web-based resources and physical resources including case studies of good practice, tutorials, journal articles, CDs and course textbooks. *Freely available.*  
<http://www.tellus.ac.uk>

#### Netskills

The JISC-funded service Netskills provides a range of quality Internet training services to facilitate the effective use of Internet and Intranet technologies. Our services include the delivery of workshops, the provision of online training and the development and maintenance of training materials for learning, teaching and cascade training. Netskills is also an accredited BTEC centre offering Professional Development Qualifications in both e-learning and web development. *Multiple access categories.*  
<http://www.netskills.ac.uk>

#### OECD Main Economic Indicators

Web access to the most recent monthly release of the OECD Main Economic Indicators. These contain data on national accounts, industrial production, employment, prices, business trends, finance and trade for the major world economies, and run from January 1960 to the current month. An extensive suite of teaching and learning materials is available online. *Conditionally free.*  
<http://www.mimas.ac.uk/timeweb>

#### Teaching Resources and Materials for Social Sciences (TRAMSS)

A series of data discovery and statistical analysis training modules for Master's level students in quantitative social science. Examples are presented in a substantive framework with specially prepared datasets. Data and software can be downloaded to run analyses. *Conditionally free.*  
<http://tramss.data-archive.ac.uk>

### Tutorials

#### Internet Detective

A web-based 'teach yourself' tutorial that aims to raise awareness of the questionable quality of some information on the Internet, and to warn of the pitfalls of using such information for education or research. Its purpose is to encourage users to evaluate critically the quality of information found on the Internet before they use it in their work. *Conditionally free.*  
<http://www.sosig.ac.uk/desire/internet-detective.html>

#### RDN Virtual Training Suite

A suite of online tutorials, for students, lecturers and researchers who want to improve their Internet skills and learn what the Internet can offer in their subject. The tutorials can be used for independent learning or as a tool to support teaching and training courses. The suite includes tutorials in the areas of geography, development, town and country planning, earth sciences, travel and tourism and European studies. *Freely available.*  
<http://www.vts.rdn.ac.uk>

#### Virtual Developing Country

Using Zambia as a case study, this gives students an appreciation of how development issues taught in the lecture theatre relate to the real world. There is a series of field trips available that look at a variety of areas including agriculture and rural-life, health and education, trade and aid, wildlife and tourism and the role of copper mining. *Freely available.*  
<http://www.bized.ac.uk/virtual/country>

## Support Services

A range of services has been established to encourage and support the use of networked information within the education community. These services provide advice, information and training to support the effective use of resources and address the implications of using ICT, eg legal and organisational issues. For a full list of JISC services, see: [www.jisc.ac.uk/services](http://www.jisc.ac.uk/services)

#### JISC Legal Information Service (J-LIS)

The JISC-funded service J-LIS provides current legal information to those working in information services of the further and higher education sectors. J-LIS provides a number of services including: research reports in areas such as copyright, network security and the data protection act; seminars, workshops and training events and an overview of the central aspects of the law affecting information technology, in areas such as freedom of information, disability, IP rights, encryption and ISP liability. *Freely available.*  
<http://www.jisc.ac.uk/legal>

#### JISCmail: National Academic Mailing List Service

The JISC-funded service (formerly provided by Mailbase) that runs electronic discussion lists for the UK higher and further education and research community. These allow you to talk with other academics via electronic mail, to collaborate on projects, announce conferences, arrange meetings or just keep in touch with colleagues in your subject area. The lists cover a vast range of topics. However, if there is not a list that interests you, JISCmail could help you set one up. *Conditionally free.*  
<http://www.jiscmail.ac.uk>

#### JISC Plagiarism Advisory Service

The service aims to raise awareness of plagiarism in the academic community by providing generic advice for institutions, academic staff and students

relating to the prevention and detection of plagiarism, and access to the electronic plagiarism detection service. *Conditionally free.*  
<http://www.northumbria.ac.uk/jiscpas>

#### JISC Regional Support Centres (RSCs)

The JISC Regional Support Centres (RSCs) work in partnership with other JISC services and organisations, supporting the use of network learning technologies and resources in UK further and higher education. The RSCs operate as a UK-wide service responsive to regional needs through a strong sense of local ownership. In England, the RSCs are part of the National Learning Network (NLN) partnership. *Conditionally free.*  
[www.jisc.ac.uk/RSC](http://www.jisc.ac.uk/RSC)

#### OSS Watch

The JISC-funded Open Source Software Advisory Service OSS Watch informs and advises the UK further and higher education community about free and open source software and open standards. It facilitates cooperative OSS activities through the development of best-practice guidelines, and outreach activities aimed at OSS strategic planners, developers and users. It offers a web-based clearing-house for up-to-date information, focused assistance for institutions and software projects, and investigative reports. *Freely available.*  
<http://www.oss-watch.ac.uk>

#### TechDis

The JISC-funded service TechDis is the primary information and advice resource on the inclusion of disabled staff and students through technology in learning and teaching, research and administration in further and higher education. Resources include: Staff development workshops, Accessibility Database containing more than 2,500 items of assistive technology, Connections Database to link to people with experience in particular fields, Knowledge Database containing articles, books, web sites and videos. *Conditionally free.*  
<http://www.techdis.ac.uk>

#### The Technical Advisory Service for Images (TASI)

The JISC-funded service TASI has been set up to advise and guide the academic community on the digital creation, management, storage delivery and use of image-related information. TASI provides comprehensive information, help and guidance for the creation and use of digital image resources. *Conditionally free.*  
<http://www.tasi.ac.uk>

#### UK Mirror Service

The JISC-funded UK Mirror Service contains copies of a large collection of freely available material, such as software for several platforms, textual and numerical data, audio material, static and moving pictures. The service copies or 'mirrors' these collections in the UK, thus reducing download time and costs (UK higher education institutions are charged for transatlantic downloads). The collection is updated daily. *Freely available.*  
<http://www.mirror.ac.uk>