

Web addresses for remote sensing

Please note that websites, unlike published books, are frequently changing, so our apologies if some of these web-links are no longer active. This list covers only a fraction of the GISci information that is available via the Internet – hopefully these sites will save you some web-search time. *If you find any particularly good sites, please email the details to the Expedition Advisory Centre so that we can include them in future editions of this handbook.* For a list covering more GISci topics see www.rgs.org/mapping.

General

web.port.ac.uk/departments/sees/staff/whitworth/dataguide/

A useful summary of data sources for fieldwork-based geoscience projects.

mercator.upc.es/tutorial/nicktutor_1-2.html

A tutorial about remote sensing and image interpretation, produced by the Goddard Space Centre.

www.infoterra-global.com/

Infoterra plc (formerly UK National Remote Sensing Centre): major vendors of remote sensing data.

www.npa.co.uk

Nigel Press Associates, suppliers of remote sensing data: lots of useful case studies.

terraweb.wr.usgs.gov

Terrestrial remote sensing.

rst.gsfc.nasa.gov/Front/tofc.html

rst.gsfc.nasa.gov/Sect1/examq.html#1-5

An excellent remote sensing introduction from NASA, with an accompanying test.

www.gsfc.nasa.gov/IAS/handbook/handbook_toc.html

NASA's online handbook for the latest generation of Landsat earth observation satellites.

www.ccrs/learn/tutorials

The Canadian Centre for Remote Sensing: an excellent site.

Aerial photography

naplib@aerialarchaeology.freemove.co.uk

Email address for the UK National Air Photo Library (NAPLIB).

www.crworld.co.uk

Ortho-rectified, digitised airphoto cover of London and the UK.

www.ordnancesurvey.co.uk

UK and overseas (mostly Commonwealth) airphoto archives. To check coverage, email details of study are locations to: customerservices@ordnancesurvey.co.uk

www.ukperspectives.com

Ortho-rectified, digitised airphoto cover of London and the UK.

www.simmonsaeofilms.com/library.html

Aerofilms have an extensive archive of airphotos from around the world, particularly former British colonies.

www.uflm.cam.ac.uk

Online catalogue of extensive UK airphoto archive.

Airborne multispectral and hyperspectral sensors

www.dlr.de/HRSC-A

Details of the multi-spectral High Resolution Stereo Camera.

www.bathspa.ac.uk

Digital aerial photography: UK and overseas coastal case studies.

www.intspec.com/hymap.htm

Integrated Spectronics, manufacturers of hyperspectral scanners: HyMap and the hand-held PIMA device.

www.dlr.de

The German Aerospace Research Establishment (DLR) website has extensive coverage of airborne multi-spectral and hyperspectral sensor systems.

Radar remote sensing

www.ee.ubc.ca

University of British Columbia, extensive web links on radar remote sensing.

www.voxel.com/radar/index.html

Downloadable published papers on radar technologies.

www.infoserv.kp.dlr.de/NE-HF/projects/ESAR/igars96_scheiber.html

The German Aerospace Research Establishment (DLR): details of the airborne radar (E-SAR) now used by the UK Defence Research Agency (DERA).

www.rsi.ca

Radarsat International.

LiDAR remote sensing

www.optech.on.ca

The main manufacturer of LiDAR systems.

www.airbornelasermapping.com

An excellent industry and scientific site on LiDAR.

Remote sensing & archaeology

www.informatics.org/france/france.html

An award-winning website.

www.ghcc.msfc.nasa.gov/archeology/remote_sensing.html

Various world-wide examples from NASA.

naplib@aerialarchaeology.freemove.co.uk

Email address for the UK National Air Photo Library (NAPLIB).

GIS applications

www.ex.ac.uk/~yszhang/erosion.htm

Many useful links to websites involved with modelling soil erosion/deposition.

www.engineering.usu.edu/dtarb

Terrain modelling using Digital Elevation Models (DEMs), for hydrology and erosion see studies.www.nmw.ac.uk/ite/banc/deecamp.html - River Dee integrated catchment management plan, NE Scotland.

www.pobonline.com/CDA/ArticleInformation/features/BNPFeaturesItem/0,2338,117907,00.html

Summary of an expedition that used GIS and RS in mapping a glacier in Ecuador.

www.scgis.org/1999_Conference/abstracts/palhares.html

Briefly describes the use of ArcView GIS as a Decision Support Tool for expeditions examining the distribution of genetic resources in Brazil.

The Global Positioning System (GPS)

www.trimble.com/gps/fsections/aa_f1.htm

www.spatial.maine.edu/~leick/gpshome.htm

www.aero.org/education/primers/gps/

www.colorado.Edu/geography/gcraft/notes/gps/gps_f.html

www.control.auc.dk/~tb/gps_view_graph/

everest.hunter.cuny.edu/mp/

Applied remote sensing

www.earth1.esrin.esa.it

European Space Agency: ERS satellite radar images of major floods, as well as earthquake and volcanic hazards.

www.calmit.unl.edu/cohyst/scope.html

Use of Landsat TM imagery in a study of hydrology and agriculture.

www.ais.sai.jrc.it/environmental/lacoast.html

European space Agency examples of coastal remote sensing applications.

www.shef.ac.uk/geography/staff/bryant_rob.html

<http://glcf.umiacs.umd.edu/data/>

Global Land Cover Facility provides earth science data and products to help everyone to better understand global environmental systems.