

# Spatial Data Infrastructure – Africa Newsletter

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SDI-Africa Newsletter

September 2005

Vol. 4, No. 9

Spatial Data Infrastructure - Africa (SDI-Africa) is a free electronic newsletter for people interested in GIS, remote sensing, and data management issues in Africa. It aims to raise awareness and provide useful information to strengthen national SDI initiatives and support synchronization of regional activities. The [Executive Working Group of CODI-Geo](#) and [EIS-AFRICA](#) are regional fora that are promoting SDI development.

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Please mention SDI-Africa as a source of information in correspondence you may have about items in this issue.

If you have news or information related to GIS, remote sensing, and spatial data infrastructure that you would like to highlight (e.g., workshop announcements, publications, reports, websites of interest, etc.), kindly send them in. I'd be happy to include your news in the newsletter.

**PLEASE share this newsletter with colleagues who may find the information useful, and ideally they will subscribe themselves.**

Back issues of the newsletter are at the GSDI website: <http://www.gsdi.org/newsletters.asp>

Best regards, Kate Lance, Editor, [lancekt@aya.yale.edu](mailto:lancekt@aya.yale.edu)

## Message from the Editor

Dear Colleagues,

I have one initiative in particular this month that I'd like to call to your attention. It is a pioneering, spatial data-dependent program in Ethiopia to help mitigate the social and economic impacts of recurring droughts in the country. The Ethiopian Insurance Corporation (EIC) is to begin selling [weather insurance policies](#) for shortfalls in agricultural production. The policies will be based on the meteorological records of an area (rainfall index) and the production per hectare at a time of regular and adequate rainfall; the insurance will compensate for losses in production from the normal amount as a result of a drought. EIC will consider data over the last 30 years and will work closely with the National Meteorological Service Agency (NMSA) in awarding compensations. Some in the country, however, argue that such a weather insurance scheme cannot be commercially viable in Ethiopia and can only be successful if it is done in collaboration with the government or with a humanitarian agency who pays for policies on behalf of farmers. It will be interesting to see how this initiative evolves.... (see also articles from [BBC](#) and [WFP](#))

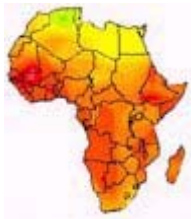
I'd also like to remind you of the [SDI email discussion lists](#) that the GSDI Association maintains so that colleagues may interact on spatial data infrastructure issues.

- Are you interested in discussing technical issues related to SDI developments? Do you have question you'd like to ask other colleagues? Then, join the [Technical Working Group Discussion List](#).
- Are you interesting in debating legal, economic, social, institutional and ethical issues related to SDI developments? Then, join the [Legal and Economic Working Group Discussion List](#).
- There are also regional discussion lists where you can post ideas, requests for information, notices: [SDI Africa Discussion List](#) - [SDI Asia and Pacific Discussion List](#) - [SDI Europe Discussion List](#) - [SDI North America Discussion List](#) - [SDI South and Central America and the Caribbean Discussion List](#).

You may subscribe to any of the lists. Signing up is separate from being on the SDI newsletter mailing list. Once you subscribe to a list, you will receive a confirmation message by email, to which you must reply. After that, you will receive email messages sent to the list by other subscribed members, and you will be able to send mail to the list from your subscribed email address. Regards, Kate

## Input to this Issue

Thank you to Muhwezi Bernard Justus, Uganda Bureau of Statistics (Uganda); Rombout Verwimp, Mnazi Bay Ruvuma Estuary Marine Park Project (Tanzania); Glenn Hyman, International Center for Tropical



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Agriculture (Colombia); Walter de Vries, ITC (Rwanda); Jean Sylvestre Makak, Cameroon Environmental Watch (Cameroon); Mesmin Tchindjang, University of Yaounde I, Department of Geography (Cameroon); and Kunga Ngece, Volunteers For Africa (Kenya) for their contributions to this issue of the newsletter.

## SDI News, Links, Papers, Presentations

### [Solving complexities in implementation of SDI in Uganda: a case of the Uganda Bureau of Statistics](#),

by Muhwezi Bernard Justus, Head, Geo-Information Services, Directorate of Population and Social Statistics, Uganda Bureau of Statistics. This paper expounds the strategy undertaken by Uganda Bureau of Statistics (UBOS) within its corporate structure in an attempt to resolve the multifaceted Spatial Data Infrastructure (SDI) function in Uganda. While over the last ten years or beyond, bodies and scholars have written some 'notes' about the need for SDI in developing countries like Uganda, this had fallen on a hard complex of issues that circumference and entangle the vital mid ribs that skeletons the spatial data infrastructural body. The paper seeks to point out initiatives made by the Bureau as an opportunity to be embraced by all geospatial users and producers both in Uganda and globally over.

### **South Africa's National Spatial Information Framework (NSIF) appoints new Director**

Ms. Abigail Thabethe has been appointed as the Director of the [National Spatial Information Framework \(NSIF\) of South Africa](#). Ms. Thabethe holds a Masters degree in Geoinformatics. She worked as a GIS industrial technician at the Local Government and Housing office in Pietermaritzburg, a lecturer at the University of Kwazulu Natal (Land Information Management: Masters Programme), and as a GIS analyst at the Municipal Demarcation Board. She has a wealth of experience in Spatial Data Infrastructures.

### [Street names given to Durban townships](#)

About 80 000 houses and 52 wards in the eThekweni district that did not have residential addresses will soon have street names and house numbers. The new system will use sequential numbers, street names and suburb or town names. Communities will be able to receive more efficient services like electricity, water, sanitation and development planning from the eThekweni municipality. Durban City Manager Michael Sutcliffe said: "This project will give communities a sense of belonging. We want to ensure all our people have an address by the end of this financial year (June 2006)." The project was "not costly," but Sutcliffe did not reveal the amount. "In return the project will help the city save money as it will be easier for our different departments and emergency services to reach these communities," said Sutcliffe.

### **Lesotho Web-based education management information system**

[GeoSpace](#) recently implemented a Web-based education management information system (EMIS) at the Ministry of Education and Training (MOET) in Lesotho . Sponsored by the [World Bank](#), the project links all existing education data bases to a spatial component, through a client-specific application. The system also makes provision for the collection and maintenance of basic school data through a special application that combines Bluetooth global positioning system (GPS) technology with rugged field data collection computers, in an integrated field data collection application. Education planners in the Ministry can now access all the relevant information required for, amongst others, school location planning, through a single user-friendly interface. The system has transformed education planning in Lesotho and should contribute to optimal planning and resource allocation in future.

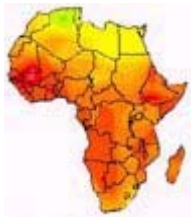
### **Lesotho Bureau of Statistics to begin census mapping for 2007 census**

[GeoSpace](#) was recently awarded a contract by the [Lesotho Bureau of Statistics](#) to provide a geospatial technology solution to the 2007 census project in Lesotho. The Lesotho census mapping project commenced in April 2005 and is scheduled for completion by April 2006.

### [Update on research in and RS/GIS activities in Cameroon](#)

[Mesmin Tchindjang](#) from the University of Yaounde I, Department of Geography, shared with the newsletter abstracts of three papers in posters sessions and 3 papers in oral sessions that were presented at ICC2005 Conference in Spain, 9-16 July 2005. He also provided an update on several activities that are underway or have recently taken place in Cameroon.

- Remote sensing in Africa: mapping approach and perspectives
- Mapping of main artery network and colonial portage in Cameroon (1900-1940)



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- Mapping of protected areas evolution in Cameroon from the beginning to 2000: lessons to learn and perspectives
  - Mapping of distance learning in geomatics throughout the world
  - Pioneer work of German cartographer Max Moisel in Cameroon: an assessment of the Colonial Era mapping contribution
  - Administrative and spatial evolution of Yaounde Town from 1898 to 1992
- a) ICA Working Group on the History of Colonial Cartography in the 19<sup>th</sup> and Early 20<sup>th</sup> Centuries
  - b) Cameroon Association of Remote Sensing and Geographic Information Science (CARGIS)
  - c) Remote Sensing Workshop, 1-10 August 2005 at University of Yaounde I

### ICT Parliamentary Committees for Niger and Gambia

ECA organized two workshops for parliamentarians, one in Niamey, Niger from 1 to 2 June 2005 and the other in Banjul, Gambia from 6 to 8 June, 2005. Specific objectives of the workshops were to:

- Increase awareness on ICT policies and strategies (NICI) and the World Summit on the Information Society processes
- Increase awareness on the role of parliamentarians in the formulation and implementation of e-strategies, by ensuring adequate budget and supporting legislation required for the Information Society
- Create ICT Committees within the Parliament to sustain MPs involvement in the process.

The support to parliamentarians was articulated as one of the recommendations endorsed at the third and fourth meetings of the [Committee on Development Information](#). For more information, contact Thierry Amoussoubo, [tamoussoubo@uneca.org](mailto:tamoussoubo@uneca.org). [Source: PICTA Bulletin, No. 41, May 2005]

[Liberian Institute for Statistics and Geo-Information Services](#) – mentioned in the Liberia Country Presentation at the International Workshop on Environment Statistics for the ECOWAS Region, 28 February – 4th March 2005, Dakar, Senegal

The need for the development of a collaborative institutional framework for the collection of Environment Statistics in Liberia can never be overemphasized, especially in this post-conflict reconstruction period in the country's history. Notwithstanding, the development of Environment Statistics in Liberia is promising, especially with the establishment of the Environmental Protection Agency of Liberia (2003) that has the mandate to coordinate, monitor, supervise and consult on all activities in the protection of the environment, as well as the creation of the Liberian Institute for Statistics and Geo-Information Services (2004). LISGIS is meant to coordinate the collection and storage of environment statistics in collaboration with other relevant stakeholders in the country.

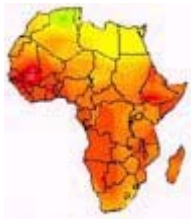
### [Strategies for Permanent Access to Scientific Information in Southern Africa: an international workshop focus on health and environmental information for sustainable development](#)

(Draft Agenda, Version 1.10, 7/12/2005), 5-7 September 2005, Pretoria, South Africa. This workshop is providing an international and interdisciplinary forum to promote a deeper understanding of, and requirements for, long-term preservation of and open access to digital scientific information resources for sustainable development in the Southern African Development Community (SADC) region. It is has been jointly organized by: [CODATA Task Group on the Preservation of and Access to S&T Data in Developing Countries](#), South African National Committee for CODATA, and U.S. National Committee for CODATA with support of South African National Research Foundation.

### [Workshop on Environment Statistics in the ECOWAS region](#)

As part of the project "Strengthening Statistical capacity-building in support of the Millenium Development Goals in the region of the Economic Community of West African States", a Workshop on Environment Statistics was held in Dakar, Senegal from 28 February to 4 March 2005. The main objectives of the workshop were to familiarize participants with concepts and methods of environmental statistics and indicators; provide a forum for exchange of information on the status of national environment statistics; and establish a network of environmental statisticians in the region. The [agenda](#), [presentations](#) and the [country papers](#) are available.

On February 16th, 2004 the IMF Survey published the article [Why statistics matter: African seminars raise awareness](#) on the importance of high-quality statistics and the role of the General Data Dissemination System (GDDS) in developing national statistical systems.



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## [Guides to Good Statistical Practice](#)

DFID funded the production of a series of guides on good statistical practice, intended primarily to give help to research and support staff in development projects. The guides (covering planning, data management, analysis, and presentation) are available to [read online](#) or to [download](#) for printing and reading offline. See also [Case Studies of Good Statistical Practice](#).

[6<sup>th</sup> Meeting of the United Nations Geographic Information Working Group \(UNGIWG\)](#), 25-27 October 2005, Addis Ababa, Ethiopia. [UNGIWG](#) is a network of professionals formed in 2000 to address common geospatial issues – maps, boundaries, data exchange, and standards. UN members and UNGIWG partners are working towards building the UN Spatial Data Infrastructure needed to meet their common goals and objectives in sustainable development. This year's meeting will provide exhibition space, giving participants the opportunity to exhibit some of their work and recent projects. Contact: Mr. Michal Smolka, Geospatial Coordinator, ODAVAM, WFP-Rome, [michal.smolka@wfp.org](mailto:michal.smolka@wfp.org).

See [minutes of last UNGIWG task group managers teleconference meeting \(May 13, 2005\)](#). One of the UNGIWG task groups is focusing on map production/GIS guidelines. According to the May 13<sup>th</sup> meeting minutes, the GIS Guidelines task group (TG) prepared two reports for the standardization of spatial data and norms for the UN. These reports identified a set of standards that needs to be reviewed and adopted by the UNGIWG. However, the review and adoption of two such large documents may require considerable time and interagency effort and resources. Therefore the GIS Guidelines TG decided to identify a core set of “*UNGIWG Spatial Standards*” that are probably less controversial and could be easily adopted and implemented by the GIS users in the UN. This proposal (included as Annex-3 in the meeting minutes) proposes the first set of such core standards. GIS Guidelines TG intends to submit the rest of the report also in parts in the near future to have it evaluated and approved gradually. These standards are intended for the newly created datasets, but they are also recommended for the existing data (which might need conversions, reprojection or adjustments).

[Proceedings are available online from 25th Annual ESRI International User Conference](#), 25-29 July 2005. San Diego, CA, USA. Among the papers are:

[Developing a Malaria Early Warning System for Ethiopia](#)

[Building an Integrated GIS in Lesotho: The MoPWT Experience](#)

[Establishment of the Spatial Information Infrastructure in Kyushu University, Japan](#)

[GIS Deployment in Bermuda--A Grassroots Approach](#)

[Challenges of a Global GIS Infrastructure](#)

[Building the Business Case for an Enterprise GIS](#)

[An Intranet Web GIS in Shiga Prefectural Authorities](#)

[City of Charlotte EA: Developing a Regional Geospatial Data Architecture](#)

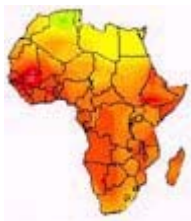
## [Toolkit to help governments navigate the minefield of free/open source software policy in Africa](#)

There is increasing debate on the role and potential benefits of free/open-source software (FOSS), particularly in supporting developing countries in their attempts to increase the use of information and communication technology (ICT). As a result, governments around the world are investigating whether and how they can integrate FOSS into their strategies for social and economic development. This toolkit provides information to governments that are considering designing and implementing FOSS policies to support national development goals. [Report](#). [Country Policy Table](#). Contact: Philipp Schmidt, [research@bridges.org](mailto:research@bridges.org).

## [Bridges.org study identifies harsh realities of using free/open source software \(FOSS\) and proprietary software in public computer labs in Africa](#)

Download the report: [Software Comparison Report](#) (pdf file/776KB), [Annexes](#) (pdf file/360KB)

Bridges.org's "Comparison Study of Free/Open Source and Proprietary Software in an African Context: Implementation and Policy-Making to Optimise Public-Access to ICT" was published in May 2005 to provide needed background information and advice to people who want to make sound software choices that are right for their local environments. The report represents the first comprehensive analysis of software choices in the African public-access context. The study looked at 121 computer labs in Namibia, South Africa and Uganda, examining the range of factors that affect software choices; the realities of the current situation in Africa; and the long-term implications of software choices for Africa.



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### [The commercialization of public sector information. Delineating the issues.](#)

The past decades have witnessed an increasingly 'market-oriented' approach to the production and dissemination of public sector information. It has led to concern on the part of the private sector about unfair competition. It triggers fear about the accessibility of data, both in terms of availability and affordability. Freedom of information campaigners worry about the impact on the access rights which serve democratic accountability. The so-called commercialization of government information thus raises a variety of concerns. In order to be able to assess the validity of these concerns, and of regulatory means to address them, it is necessary to first describe which models of production and distribution make up this 'commercialization'. The focus will be on the situation in the EU, notably the United Kingdom and the Netherlands, which exemplify different commercialization policies. These national policies, as well as the principles enshrined in the 2003 EU Directive on re-use of public sector information will be compared with US federal policy on access to and exploitation of public sector information. In the EU, the policy of the US tends to be seen as favourable to the public domain. To conclude some suggestions are made as regards means to prevent or correct negative consequences of commercialization.

### [Social Tapestries: local knowledge mapping and sharing](#)

Social Tapestries is a research programme exploring the potential benefits and costs of local knowledge mapping and sharing, what [Proboscis](#) has termed the 'public authoring' of social knowledge. Over the next few years Proboscis is developing a series of experimental uses of public authoring with actual people in real world scenarios (schools, local regeneration projects in social housing etc) to demonstrate the social and cultural benefits of local knowledge sharing enabled by mobile and network technologies. As part of this work Proboscis has been exploring new models of public access to GIS owned by public sector institutions (such as the Ordnance Survey in the UK). A draft Creative Commons style license for non-profit/non-commercial use of GIS has been formally submitted to the OS as the outcome of 2 years collaboration to date. An affiliates forum of interested parties from government, civil society, culture, business and academia is now being formed to explore these issues of knowledge mapping and sharing and the wider issues they connect to. See: [National Mapping Agency: Access to GIS datasets - Proposed Creative Commons-style License](#) [Draft Version: 1.1, Date: 19/4/2005, Author: Giles Lane]

### [UNESCO Policy Guidelines Related to Governmental Public Domain Information](#)

Prepared by Paul Uhlir, the Guidelines to advise countries on policies for the development and promotion of governmental public domain information, taking account of both national needs and international practices have now been published by UNESCO as the role and value of public domain information, especially of information produced by the public sector, is generally poorly understood. The publication encourages governments to play a leading role by defining the scope of available governmental public domain information according to the nation's needs, adopting a national "Freedom of Information" law and developing and implementing a comprehensive Governmental Public Information Policy Framework, as well as recommends an approach to access and use of governmental information protected by intellectual property laws.

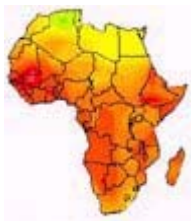
### [Governments should use space more effectively to address society's needs, says OECD](#)

The Organisation for Economic Cooperation and Development (OECD) has published a report advising governments to use space technology more wisely in order to address civil needs. Space technology can be used in particular to tackle five major challenges, according to the report: environmental problems, including natural disasters; the use of natural resources; the increasing mobility of goods and people; growing security threats; and the development of the information society. In order to make the most of this technology's potential, it is recommended that governments do three broad things: 1) implement a sustainable space infrastructure; 2) encourage public use, and 3) encourage private sector participation.

[Speech given by Michael Osborne](#), Director International Futures Program, Global Science Forum, on the occasion of the first presentation of the newly released OECD Publication and Futures Project report [Space 2030: Tackling Society's Challenges](#) or, how space-based applications can help

### [Earth observation handbook](#)

The 2005 CEOS Earth Observation Handbook explores society's increasing need for information on our planet, being the essential foundation for sustainable development policies aimed at ensuring our continued health and prosperity in the face of man-made climate change, population growth, and degradation of our



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natural environment. It explains the important role of Earth observation satellite programmes in fulfilling those information needs. It presents the current status and plans for future Earth observation satellite programmes of governments world-wide, through their national and regional space agencies, and describes how the data and information which they supply relate to some of society's most pressing needs for information on Earth System processes and our interaction with them. The role of the Committee on Earth Observation Satellites (CEOS), as the body with responsibility for co-ordination of government-funded satellite programmes world-wide, is explained, including in relation to plans now underway for implementation of a Global Earth Observation System of Systems (GEOSS).

### [Guide to geographical data and maps](#)

The "EEA Guide to Geographical Data and Maps" version 1.3 issued by European Environment Agency (EEA) and European Environment Information and Observation Network (EIONET), release June 2005, includes EEA recommendations on coordinate reference systems, data formats, map production and statistical reference grids. The aim of these guidelines is to provide guidance on spatial data handling to all GIS users who deliver material to EEA products: internally at the EEA, at European topic centres (ETCs), or other partners. There is a need to strengthen the harmonisation of spatial data handling by different topic areas and to ensure improved quality control on spatial data and derived products, e.g. maps. [Source: GeoCommunity GIS List, August 2]

[Angola Benguela Currents Front Workshop/Coastal Monitoring Workshop](#), Swakopmund, Namibia September or October 2005 (possibly 1-4 October 2005). As part of a series of workshops focusing on the main trans-boundary areas in the Benguela Current Large Marine Ecosystem (BCLME) region, the ABF workshop aims to source and assess all available information on the Angola-Benguela Frontal System (environment and resources) and integrate this information, assess regional needs, and develop an operational strategy for the implementation of a more comprehensive project to address priority needs of BCLME sustainable management.

### **Call for papers - "Transforming Geoscience Access through Standards Implementation"**

The American Geophysical Union (AGU) has issued a call for papers to be presented at the [2005 AGU Fall Meeting](#), 5-9 December 2005, San Francisco, CA, USA. The session is titled "Transforming Geoscience Access through Standards Implementation." Open standards for geospatial data interoperability have reached a level of maturity that enables broader integration of geoscience data products, associated processing services, sensor webs, and analytical Earth science models into solutions for society. The organizing committee encourages submissions of papers describing geoscience applications, research methods, strategic goals, or decision processes, enabled by interoperable access to Earth science data, services, and models. They are especially interested in the societal benefit areas identified in the Global Earth Observation System of Systems and the U.S. Integrated Earth Observation System, including agriculture, air quality, carbon management, coastal management, disaster management, ecological forecasting, energy, invasive species, public health, and water management. (Electronic) abstract Deadline: [8 September 2005](#).

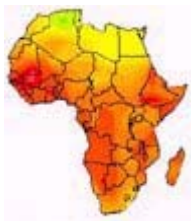
[Towards an SDI research agenda](#) (presented at 11th EC GI&GIS, Sardinia, Italy, June 28- July 1, 2005)

The authors ask how research agendas of Geographic Information Science should reflect the ubiquitous discussions and developments on SDI. Many research issues surrounding geographic information remain unresolved and are equally relevant in SDI settings. More interestingly, however, a host of GI research questions are different in the SDI context or have only arisen in it. The literature has so far discussed them from either technical or social perspectives, but no integrated view exists to our knowledge. The authors attempt it by combining their specializations in the technology, people, and content dimensions of SDI with a joint perspective on the "science behind SDI." \*\* See additional [11th EC GI&GIS Workshop presentations](#) online. For instance: [Rebuilding an SDI: the Portuguese experience](#); [Local SDI in France](#).

### GIS Tools, Software, Data

### [Madagascar: the National Report on Food Insecurity and Vulnerability](#)

The report provides an integrated analysis of the situation based on all sources of information available. It is available on the Country Profile for Madagascar and on a CD-ROM, together with four policy briefs prepared



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for decision-makers on subjects directly relevant to food security policies, *thematic maps and primary data used to carry out the analyses and the maps*. The CD-ROM can be obtained from the FIVIMS Secretariat, [fivims.secretariat@fao.org](mailto:fivims.secretariat@fao.org), or the FIVIMS Focal Point Institution in Madagascar, [dsse.maep@wanadoo.mg](mailto:dsse.maep@wanadoo.mg). The results are summarized in the [FIVIMS Newsletter of July 2004](#) (Vol. 6 No.3).

### [CGIS-NUR \(Rwanda\) makes SRTM data available](#)

CGIS-NUR remote sensed datasets include Digital Elevation Model from Shuttle Radar Topographic Mission (SRTM), 3-arc sec (90m) resolution. Potential users can browse and request this NGA/NASA/USGS dataset processed by CGIS-NUR and available from the CGIS-NUR datawarehouse. For further information, on SRTM data, visit the official [SRTM-USGS website](#).

### [Advanced Fire Information System \(AFIS\)](#)

The Advanced Fire Information System (AFIS) has been developed as a service module of the Wide Area Monitoring Information System (WAMIS), which delivers fire information products to the Fire Protection Agencies and Disaster managers all over Southern Africa in support of effective decision-making in the monitoring of natural and manmade fires over the Southern African Development Community region. The website is updated 7 times a day providing extremely updated information on the location of on-going fires. [Source: Space Technology for Disaster Management - August 2005 Updates]

### [Open Interoperability Grant Program](#)

In 2002, Intergraph pledged \$5.5 million toward GSDI development by harnessing industry standards. The Intergraph Open Interoperability Grant Program promotes interoperability and enables organizations using geospatial information to build open Web services and publish their data using Geography Markup Language (GML), thereby allowing easy and open exchange of data. The announcement of the Grant Program coincided with the 6th Global Spatial Data Infrastructure (GSDI) Conference and continues to support the GSDI organization's mission of ready global access to geographic information. A number of the one hundred (100) grants still are available to qualifying organizations. Grant recipients will receive a full version of GeoMedia Professional, a full version of GeoMedia WebMap, Web Map Server (WMS) adapter kit for GeoMedia WebMap, GML Data Server, WFS Data Server, GML export command, GML export service, 1-year Synergy Subscriber membership, 2 days free tech support or training, and Intergraph GeoSpatial Users Community (IGUC) membership. The program is open to any organization wishing to publish their data in an open format, either as a Web service or an XML/GML file. However, preference will be given to the following:

- Interoperability projects, such as municipal web data exploitation, homeland security, transportation network management, sustainable development, geospatial Intelligence gathering or other projects involving multiple organizations
- Organizations that have a clear commitment toward interoperability through open standards
- Organizations not currently using Intergraph Mapping and Geospatial Solutions software
- Organizations wishing to participate in the Intergraph [www.WMSViewer.com](http://www.WMSViewer.com) project

To apply, download and complete the [application form](#) and e-mail it to [interop@intergraph.com](mailto:interop@intergraph.com).

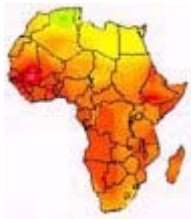
### [Analytical GIS Eco - software for quantitative topography and non-parametric statistical comparisons](#)

Analytical GIS Eco uses a system of land surface attributes, performs statistical comparisons between them and soil/vegetation data, carries out soil and vegetation prognoses on that basis, and displays vector layers above raster images. You may [download for free](#) a full-featured DEMO of Analytical GIS Eco (export/import are disabled). This DEMO corresponds to version 1.03 of GIS Eco. This new version contains a translator from new global SRTM (Shuttle Radar Topography Mission) grids that have 30-m or 90 m resolution and cover 80% of Earth drylands. Contact: [Peter Shary](mailto:peter_shary@mail.ru), [peter\\_shary@mail.ru](mailto:peter_shary@mail.ru). [Source: GeoCommunity GISLIST, August 14, 2005]

### [World Wind](#)

NASA has put together a viewer that combines a 3D engine with all sorts of background data including Blue Marble, Landsat 7, SRTM, MODIS, GLOBE, Landmark Set, etc etc. Its free and worth looking at. The data are streamed so you will need a stable connection. [Source: TZGISUG List, August 2, 2005]

A candid review of the viewer from a contributor to TZGISUG said: "First it was a monster download (+180MB!) (WARNING to those with slow connections!) and then I had to install MS .NET framework which I really did not want to do; then when I run it and try and use it, the interface is as slow as molasses on a cold



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winter day! I can't say much for the interface either! There are not any simple tools available (like a hand to grab and move things, magnifying glass to zoom, etc.), you have to guess at the mouse controls, and the animation of what tools are displayed is annoying. All that said, I really like the concept of having a real remote sensing type application like this. Google Earth is great, but not really a true GIS application."

### [DIVA-GIS version 5.0/Mismi \(2005\) preview](#)

A free and open source geographic information system (GIS) for the analysis of biodiversity data from CIP (International Potato Center, Peru). DIVA-GIS 3.0 was released under the GPL 2.0. You can use it to make maps of species distribution data, and analyze these data using grids. DIVA-GIS was specifically developed for use with genebank data such as available through national or international genebank documentation systems and [SINGER \(System-wide Information Network for Genetic Resources\)](#). [Download preview version here](#).

### [Collaborative vector mapping the world](#)

[OpenStreetMap](#) is a collaborative website using wiki-like techniques to make maps of the world. GPS traces made by physically travelling on routes and aerial images from aircraft or satellites are used as a base layer upon which streets and features are drawn. Out of copyright maps from the 1950's can also be scanned and used. The data and software produced by individuals is released under free licenses for all to rip, mix and burn. See [List archives](#).

## Geospatial Research, Applications, Reference Material

### [GIS and rural electricity planning: a case study Uganda](#) – [ATDF Journal 2(2). A focus on energy]

This paper discusses the use of GIS in the planning process for rural electrification. The aim is to identify patterns of demand and priority areas of need. By creating a demand-side scenario, electricity can then be supplied to targeted areas. A cross-sectoral view is taken to examine the energy demand patterns using physical data and available country statistics that are then incorporated into a GIS master database. The initial priority demand-side sectors targeted, in terms of energy needs, are education and health. As a result of this preliminary work, areas can be identified and targeted for rural electricity investment, which include off-grid renewable energy plants such as small-scale hydropower schemes.

### [Densification et étalement urbain à la Réunion : mesure, localisation et évolution](#)

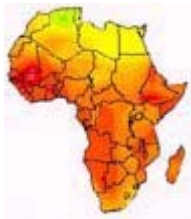
L'espace urbain d'aujourd'hui possède ses caractéristiques propres. Les notions de ville émergente, ville diffuse ou encore de périurbain viennent brouiller les lectures traditionnelles du territoire. Malgré ces difficultés d'interprétation, le résultat est clair : la ville s'étend. C'est un phénomène partagé à l'échelle planétaire, mais particulièrement préoccupant à La Réunion, où les contraintes géographiques et les enjeux d'occupation de l'espace sont importants. La croissance de l'espace urbain, directement liée à la croissance démographique et à l'évolution des modes de vie, met en effet en danger l'équilibre des espaces naturels ainsi que le monde agricole. Après avoir développé une méthodologie rigoureuse permettant de définir une tâche urbaine à La Réunion, les travaux se sont focalisés sur l'élaboration de typologies à même de distinguer les différences au sein de l'espace urbain. Ces analyses sont d'autant plus intéressantes que la comparaison entre deux dates différentes permet une compréhension de la dynamique de l'étalement urbain.

### [Schéma de Cohérence Territoriale Est \(la Réunion\)](#)

[Le Schéma de Cohérence Territoriale \(SCOT\)](#) de la CIREST (Communauté Intercommunale de la Réunion Est) a été arrêté le 17 juillet 2003 en Conseil Communautaire. L'Agence pour l'Observation de la Réunion l'Aménagement et l'Habitat (AGORAH), en tant qu'agence d'urbanisme, a accompagné la Communauté d'Agglomération dans son processus d'élaboration. Le Projet d'Aménagement et de Développement Durable, ainsi que le Document d'Orientation de ce SCOT sont disponibles à la consultation et au téléchargement.

### [Community mapping approaches for natural resource management in Keiyo and Marakwet district in Kenya](#)

This paper describes how GIS has complemented processes of participatory land use planning in parts, prone to land degradation, of the Districts Keiyo and Marakwet. The result is land use maps that make it easier for people, organized in community rooted NGOs, to analyze the problem of depletion of soil, water,



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and forest resources, to plan for improved land use and to monitor the impact of their efforts towards improved management of the natural resources.

### [Use of GIS in Epidemiology in Kenya](#) ([United States Army Medical Research Unit - Kenya](#))

GEIS Gazette Issue 4 May 2005, pg. 5. Contact: [wrp@nairobi.mimcom.net](mailto:wrp@nairobi.mimcom.net).

### [Topographical model as input for hydrological modelling in the Okavango Delta, Botswana](#)

The Okavango Delta Management Plan (ODMP) is an ongoing initiative aiming to establish a comprehensive, integrated management plan for the conservation and sustainable use of the Delta. The main component of the water management plan is hydrological modelling in order to estimate the effect of potential water abstraction or dam construction scenarios. In this respect a highly accurate Digital Elevation Model is required to model the flow of water in the delta and identify areas that are subject to flooding.

### [The role of Synthetic Aperture Radar in agriculture](#)

A tailored made service based on the utilisation of ENVISAT ASAR, ERS-2 SAR, and RADARSAT-1 data complemented by an Agro-Meteorological Model (AMM) has been developed. At present time, this methodology has been applied to:

- determine rice acreage at emergence time, to monitor rice growth, and to predict harvest time and production and in South East Asia (Internet Rice Information Service).
- monitor field preparations, detect plant emergence, flowering, plant drying and harvest time for maize and sun flower in South Africa.
- detect planting/emergence time and corresponding cultivated areas and production in Malawi and Senegal (Global Monitoring for Food Security).

In general, from the above mentioned experiences, it has been recognised that SAR systems play a relevant role. *Conditio sine qua non* for the successful applicability of the proposed multi-temporal signature classifier, is that satellite acquisition times-series and related acquisition modes are selected according to the specific crop calendars and land practices, in order to be able to capture the field activities and the different growing stages.

### [World AgroMeteorological Information Service \(WAMIS\)](#) – Bulletins from Côte d'Ivoire, Ethiopia, Lesotho, Malawi, Niger, Southern African Development Community (SADC), Sudan, Tanzania

The goal of WAMIS is to make agrometeorological products issued by WMO members available to the global agricultural community on a near real-time basis. These products are produced on either a weekly, monthly, or yearly time frame and the format of the products will range from text and MS Word files to PDFs. Provision of a central location for agrometeorological information can help the users quickly and easily evaluate the various bulletins and gain insight into improving their own bulletins. To further help members improve the quality and presentation of their agrometeorological bulletins, WAMIS will also host a tools and resources section with the themes of data, information, dissemination, and feedback.

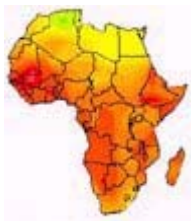
### [Le Service Mondial d'Information Agrométéorologiques \(WAMIS\)](#) – Les bulletins de Côte d'Ivoire, Ethiopia, Lesotho, Malawi, Niger, Southern African Development Community (SADC), Sudan, Tanzania

L'objectif du WAMIS est de mettre, dans le monde entier, les produits agrométéorologiques fournis par les Membres de l'OMM à la disposition de la communauté agricole en temps quasi réel. Le fait que l'information agrométéorologique soit ainsi centralisée permet également aux Membres de consulter rapidement et facilement les divers bulletins et d'en tirer un enseignement pour l'amélioration de leurs propres bulletins. Afin d'aider encore davantage les Membres à améliorer la qualité et la présentation de leurs bulletins agrométéorologique, le WAMIS hébergera également des section de outils et de ressources avec les thèmes des données, de l'information, de la diffusion, et de la rétroaction.

## Training Opportunities

### [Principles of Remote Sensing – Distance Learning Course](#), 7 November - 16 December 2005

The course Principles of Remote Sensing introduces the participant to the basic concepts and the operational skills necessary to acquire the most appropriate RS data and extract geo-information from them. The course is useful for both the novice to remote sensing and the one experienced in some aspects but missing either the complete overview of the state-of-the art and/or the conceptual foundation. Upon successful completion of the course the participant will receive an ITC Certificate. The course fee is 600



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Euro for participants in highly developed countries. Participants in other countries pay a reduced fee of 300 Euro. Applications for the course should reach ITC by 26 September 2005.

### [National University of Rwanda/ITC announcement of fellowships for PhD studies](#)

The National University of Rwanda under the ITC – CGIS-NUR /NPT / RWA / 071 project “Development of Geographic Information Sciences based Education and Research Program” invites applications for PhD studies. Candidates ideally would have experience within an academic setting, and proven experience with research; a minimum of working experience in the field of GIS, including land surveying using conventional and GPS techniques, digital mapping, and map revision using satellite data; at least two referees providing information on previous job / activities; fluency in English; and Rwandan nationality. Applications should be submitted by 16 September 2005 at the latest.

### [2006 Postgraduate Diploma Course in Space Science and Technology Applications in Africa](#)

The Programme, beginning in January 2006, is being organised by the UN-affiliated African Regional Centre for Space Science and Technology Education in English (ARCSSTE-E) in collaboration with the Nigerian National Space Research and Development Agency (NASRDA). Further information can be obtained from Dr. O.O. Jegede, Director of the Centre, [arcsstee@oauife.edu.ng](mailto:arcsstee@oauife.edu.ng), and the application form can be downloaded from the [ARCSSTE-E website](#). Candidates must be from the following countries: Angola, Botswana, Cameroon, Egypt, Ethiopia, Ghana, Kenya, Lesotho, Liberia, Malawi, Mozambique, Namibia, Nigeria, Sierra Leone, South Africa, Sudan, Swaziland, Tanzania, The Gambia, Uganda, Zimbabwe. In special cases, candidates from other countries may also be considered. Travel support (return airfare) is provided for candidates from outside Nigeria through funding by the UN Office for Outer Space Affairs. Additional financial assistance in the form of scholarships will be awarded to deserving candidates. Deadline: 30 October 2005. [Source: UNOOSA-STDM List]

### [Formation d'Experts Regionaux pour une Gestion Durable des Forêts du Bassin du Congo](#)

Dans le cadre de la Facilitation du Partenariat pour les Forêts du Bassin du Congo (FPBC), le Ministère des Affaires Etrangères Français met en œuvre le projet FSP « FORINFO » qui vise le renforcement des capacités régionales de gestion durable des ressources naturelles par la formation de techniciens, cadres et chercheurs autour de trois thèmes prioritaires :

1. Evolution et évaluation des écosystèmes de la région
2. Gestion et aménagement intégré des territoires
3. Méthodes et techniques de gestion durable des ressources naturelles.

Les pays concernés par ce projet sont le Cameroun, la République du Congo, la République Démocratique du Congo, la République Centrafricaine, le Gabon, la Guinée Equatoriale, Le Tchad, Sao Tomé et Principe. Les inscriptions définitives s'effectuent généralement fin septembre 2005, le début de la formation en Novembre 2005 et la fin de la formation en Octobre 2006. Contact: [fspforinfo@yahoo.fr](mailto:fspforinfo@yahoo.fr).

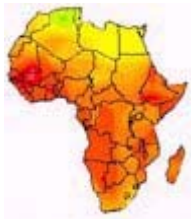
### **Training courses provided in Nairobi, Kenya**

[Volunteers For Africa](#), and a Regional Organization involved in Development consultancy and training have teamed up to initiate professional training courses in the following areas.

1. Geographical Information Systems for Development.
2. Remote Sensing for Development.
3. Monitoring and Evaluation for development workers.
4. Voluntarism and community action.
5. Natural Resource Planning and Governance.

The courses are being offered in three sessions, of morning, afternoon and evening, at the organizations training centre in Hurlingham, Nairobi, Kenya. The training centre is a development oriented training facility in Eastern Africa, although presently training is focussed on workers in Kenya. Organized groups are welcome (and encouraged) to apply for special training, offered by professional lecturers in the fields specified. Interested parties may get in touch with the training centre officials at [volunteersafrica@yahoo.com](mailto:volunteersafrica@yahoo.com) or [volunteersafricakenya@yahoo.com](mailto:volunteersafricakenya@yahoo.com).

[Live Seminar - Geoprocessing using ModelBuilder](#), September 22, 2005 (12pm, 2pm, & 6pm US Eastern Time, New York). ArcGIS 9.0 introduces the geoprocessing framework. This seminar will explain how models can be used in ArcGIS to streamline geoprocessing tasks. The presenter will demonstrate how to create,



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run, and share models using ModelBuilder. [ESRI Live Training Seminars](#) are designed for those who want GIS training on a focused topic presented live by an ESRI technical expert. The Live Training Seminars are free - no purchase is necessary. If you miss the live training seminar, typically ESRI records the seminars, so you can download and view it at a later time, at your convenience.

### **IUCN GIS self study training manual**

There are many GIS training opportunities organised by universities, NGO's, governments, or international organisations. A common drawback of these trainings, however, is that people have to be physically present in the training at the time of teaching. This often does not fit in work schedules or the budget of organisations. On-line training opportunities can tackle this problem, but many GIS units in more remote places do not have an internet connection of sufficient quality to follow these trainings. To address this problem, a self study training manual with exercises (using ArcView 8.x), giving an introduction to GIS, was developed. The course uses examples and exercises on marine environmental management. The self study process stimulates students to study and follow up new technologies and other GIS related issues. The development of the training manual was part of the GIS support to the Mnazi Bay Ruvuma Estuary Marine Park (MBREMP) project in Tanzania. Support to the MBREMP has been coordinated by the IUCN Eastern Africa Regional Office and Marine Parks and Reserves Unit (MPRU) Tanzania, and was funded by UNDP/GEF. Copies of the training manual can be requested from the IUCN office in Nairobi. Contact details: IUCN Eastern Africa Regional Office, PO Box 68200, Nairobi, Kenya, tel: ++ 254 2 890605 – 12, fax: + 254 20 890615, email: [mail@iucnearo.org](mailto:mail@iucnearo.org); or from the Warden in Charge, MBREMP: PO Box 845, Mtwara, Tanzania, tel: ++ 255-23-2334091/2333491/259, email [mbrempe@makondenet.com](mailto:mbrempe@makondenet.com).

**[26<sup>th</sup> Course Professional Master on Geomatics and Natural Resources Evaluation](#)**, Istituto Agronomico per l'Oltremare (IAO), Florence, Italy, November 7, 2005 – June 23, 2006

The IAO approach is based upon a pragmatic and interdisciplinary integration of field survey and remote sensing, both aerial photographs and satellite imagery, by mean of GIS techniques, in varying proportions according to the scale of the study. The aim of the Course is to provide participants, having different academic qualifications, with a common background on Remote Sensing data processing and interpretation as well as on GIS setup and use, in order to carry out natural resources inventories and their evaluation, with special emphasis on the rural sector in developing countries. The course, taught in English, and lasts about eight months. The attendance fee is Euro 1,760; it includes all course activities (lessons, practicals, seminars). Half board accommodation in single room at the IAO Training Centre costs about Euro 320 per month (to be confirmed). IAO will provide funding for the fieldwork (travel and accommodation). A limited number of scholarships for people coming from developing countries are issued by the IAO. See [brochure](#) for further details. Deadline for applications is September 15, 2005.

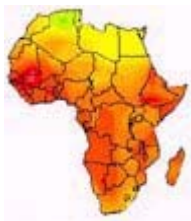
### **2006 GIS Degree Programmes at the University of Cape Town**

The [Geomatics Division of the University of Cape Town](#) is offering a 1-year Bachelor of Science Honours in Geographical Information Systems. The programme is aimed at graduates with a first degree (three years) in the natural, geographical or computer sciences, who have an aptitude for mathematics, and are computer literate. The programme includes introductory to advanced GIS, programming and remote sensing, as well as other options, and includes a thesis project component. The Geomatics Division is also offering opportunities for MSc (Eng) and PhD degrees by full dissertation in the following specialist areas: Geodesy, Surveying, Cadastral and Land Tenure Systems, Photogrammetry, Remote Sensing, and Geographical Information Science. Contact: [geosec@ebe.uct.ac.za](mailto:geosec@ebe.uct.ac.za), Tel: +27-21-650-3577; Fax: +27-21-650-3572. The deadline for applications is 30 September 2005 for international students and the 31 October 2005 for South African citizens. More information about these programmes and the application procedures can be downloaded from the link provided. Alternatively, interested applicants can contact Terry Richards at [trichards@ebe.uct.ac.za](mailto:trichards@ebe.uct.ac.za). There are, unfortunately, no scholarships available specifically for the degree programmes, but further enquiries about scholarships can be obtained from the [UCT postgraduate funding office](#).

### **Funding Opportunities, Awards, Support**

#### **[TWAS Fellowships for Research and Advanced Training](#)**

TWAS offers fellowships to young scientists in developing countries to enable them to spend between three and twelve months at a research institution in a developing country other than their own. The purpose of



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these fellowships is to enhance the research capacity of promising scientists, especially those at the beginning of their research career, helping them to foster linkages for further collaboration. The fellowships are for research and advanced training. They are offered to young scientists holding an M.Sc. or equivalent degree. Eligible applicants for the fellowships are young scientists working in any area of natural sciences who are citizens of a developing country and are employed by a research institution in a developing country. There is no age limit. However, preference will be given to young scientists at the beginning of their research careers and those working in Least Developed Countries. The fellowships are offered for a minimum period of three months and a maximum of twelve months. TWAS covers international low-cost airfare plus a contribution towards subsistence amounting to a maximum of US\$300.00 per month. No other costs will be provided by TWAS. The host institution will provide accommodation and food as well as research facilities. The closing date for receipt of applications is 1 October of each year.

### [ICSU-TWAS-UNESCO-UNU/IAS Visiting Scientist Programme](#)

The objective of the programme is to provide institutions and research groups in the South, especially those with limited outside contacts, with the opportunity to establish long-term links with world leaders in science and so help develop capacity-building in their country. It is for institutions working in the areas of natural sciences other than mathematics and physics. Institutions wishing to be considered for this programme should fill in the request form. Applications should be received TWAS Secretariat by 1 October.

### [RICS Education Trust](#)

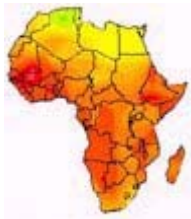
The RICS Education Trust exists to provide funding to the surveying research community for new and innovative research projects and to support and encourage a new generation of professionals. The Trust realizes its objectives in a variety of ways: awards grants, normally up to £5000, to individuals and institutions for the undertaking of research projects; maintains and fosters links and partnerships with other organisations with similar objectives; offers fellowships to students undertaking higher degrees by research into subjects of interest to the profession (The Trustees do not provide funds in support of research in pursuit of a first degree or Masters degrees); awards one-off grants to educational projects; endows prizes to individuals considered to be undertaking work of particular merit or making a special contribution to the profession. The next deadline for applications is September 30, 2005. Contact: [research@rics-foundation.org](mailto:research@rics-foundation.org).

### [Research grants: UPE Focus Cities Research Program](#)

A call has been launched by the [Urban Poverty and Environment Program \(UPE\)](#) of the International Development Research Centre (IDRC) for concept notes (in English or French) in Africa and Asia for innovative projects linking urban poverty alleviation, environmental management and natural resource use for food, water and income security. The strategy of the Focus Cities Research Program is to advance awareness, policy options and best practices for the reduction of environmental burdens in urban slums through in-depth participatory research with multi-stakeholder City Teams. The research program in each city will focus on the most pressing environmental issues affecting slums, while developing results and creating synergies with ongoing urban development and planning programs. City Teams will ideally include community groups that represent the urban poor, NGOs, research institutes, local and national governments, and the informal and formal private sector. Eight focus cities will be selected over the course of five years, according to a competitive selection process, to develop, research and test interventions that involve any of the following key urban environmental themes: urban agriculture; water and sanitation; solid waste management; vulnerability to natural disasters; land tenure as a cross-cutting theme. In this first call, concept notes are invited from city teams in Sub-Saharan Africa and Asia. Four Cities will be selected – two in each region – for awards of up to CAD\$1.2 million each (EUR 816,000). A second call for proposals will be announced for Latin America & the Caribbean, and the Middle East & North Africa regions in 2006. Contact: Focus City Coordinator, IDRC, Canada, [upe-focuscity@idrc.ca](mailto:upe-focuscity@idrc.ca). Deadline: October 15, 2005.

### [Borlaug Leadership Enhancement in Agriculture Program \(LEAP\)](#)

The Borlaug LEAP is a fellowship program, funded by USAID, to enhance the quality of thesis research of graduate students from developing countries who show strong promise as leaders in the field of agriculture and related disciplines as defined by Title XII. The LEAP program will support engaging a mentor at a Consultative Group on International Agricultural Research (CGIAR) system center to support and enhance the thesis research and mentoring experience. Awards will be made on a competitive basis to students who



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show strong scientific and leadership potential, have a well coordinated proposal between their home university, a US university mentor, and the CGIAR mentor, and whose research is related to a strong research and support project within the host country. Emphasis will be placed on work that has relevance to the national development of the student's home country. The focus region for the current Request for Applications (RFA) is sub-Saharan Africa. Applications are welcome throughout the year. However, reviews are conducted twice a year and administrative deadlines for those reviews are: October 15 and March 15. Applications received by October 15th will be reviewed and grant recipients will be notified the following January. Applications received by the 15th of March will be reviewed and grant recipients will be notified the following May. Students should plan to begin their fellowship within one year of notification.

### [Call for Proposals - Free subscription to ISPRS Journal](#)

ISPRS (International Society for Photogrammetry and Remote Sensing) Council is accepting Proposals for free one-year subscriptions to ISPRS Journal of Photogrammetry & Remote Sensing. ISPRS Council has decided to offer up to fifteen (15) complimentary subscriptions to the ISPRS Journal of Photogrammetry and Remote Sensing for the calendar year 2006. This offer is extended to all academic, research and other public institutions in developing countries, which are unable to fund the USD45 subscription. Interested institutions should submit a 1-2 page proposal by the closing date of 15 October 2005 to the ISPRS Secretary General.

### [Fellowship Programme for African Scientists](#)

[Rothamsted International](#), a UK non-profit organisation working for sustainable agricultural development in developing countries, is offering an "African Fellows Programme" providing problem-focused training in Europe for mid-career African scientists. The aim of the Programme is to support sustainable agriculture in sub-Saharan Africa by catalysing innovative solutions needed to achieve food security. African scientists will carry out research projects in a partner European research institute or university for periods of 4 to 12 months. The new deadline for pre-proposals is 14 October 2005 and the next deadline is 3 March 2006.

### [START/PACOM Call for Proposals 2006](#)

START, through funding from the United States Climate Change Science Program, is soliciting proposals from scientists based at African institutions for research projects related to:

- 1) Climate Change and Water Resources
- 2) Climate Variability and Climate Change in Africa
- 3) Impacts/Adaptations/Vulnerability to Global Change
- 4) Land Use and Ecosystem Change
- 5) Bio-geochemical Fluxes, and
- 6) Biodiversity.

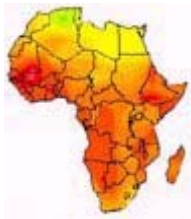
Proposals must explicitly address priority issues identified in the frameworks of START's sponsoring programs (IGBP, IHDP, and WCRP) or of the Earth System Science Partnership. In this round, priority will be assigned to proposals that focus on water issues and include aspects of food production systems, biogeochemistry, health, and vulnerability and adaptation. International collaboration is encouraged. Proposals will be accepted until 9 September 2005.

### [Application for BENEFIT marine science tuition fees bursaries 2006](#) (Angola, Namibia & South Africa)

Under the Benguela Environment Fisheries Interaction & Training Programme, a limited number of [BENEFIT](#) bursaries for FY2006 will be made available to Angolan, Namibian and South African students at tertiary institutions in the region to cover the tuition fees only of their courses for final year (undergraduate) or Honours degree (or equivalent) for both university and Technikon courses, in marine science fields. At Angolan institutions where the students may not be liable for fees, stipends may be made available for final year students (quinto ano de licenciatura) at an equivalent rate to the course fees in the other partner countries. The awards will be made on a competitive basis, weighted by corrective action criteria. Deadline: 30 September 2005.

### [GKP Youth and ICT Awards 2005](#)

This award will recognise six young (17 and 30 years old) social entrepreneurs from a developing country or a country in transition who "have transformed social development opportunities into a sustainable social enterprise through innovative use of ICTs. Deadline: 15 September 2005.



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**King Hassan II Great World Water Prize** The King Hassan II Great World Water Prize of \$ 100,000 will be awarded at the 4th World Water Forum in Mexico in March 2006. Either an organisation or an individual may receive it in honour of outstanding achievements in any aspects of water resources such as scientific, economic, technical, environmental, social, institutional, cultural or political. This international award, jointly established by the government of Morocco and the World Water Council, was created in March 2000, with the aim of having a political tool at the disposal of both institutions to stimulate awareness and reflection. The theme for the Prize is 'Cooperation and solidarity in the fields of management and development in water resources'. The nomination period is now open until 30 September 2005.

**U.S. - IALE Foreign Scholar Travel Award for the 21st Annual Symposium of Landscape Ecology**, San Diego, California, 28 March – 1 April 2006. The [United States Regional Association of the International Association for Landscape Ecology \(US-IALE\)](#) has a program to support attendance at the annual meeting by landscape ecologists from foreign (non-G7) countries and to foster international exchange about advances in landscape ecology. The award recipients will receive US \$1,000 at the [Annual Meeting](#). It is the recipient's responsibility to make all transportation arrangements and cover all transportation and lodging costs associated with participating in the meeting. Applicants must not be studying or residing in the United States or Canada, not have received a Master's or Doctorate at an institution in the United States or Canada. Applicants must submit FSTA application materials by 15 October 2005 to [sriffell@cfr.msstate.edu](mailto:sriffell@cfr.msstate.edu) and an abstract for a paper or poster presentation at the 2006 conference by 4 November 2005 at the conference website. Application includes: Curriculum vitae (4 pages maximum), paper or poster abstract, summary of your research (750 words maximum), explaining how it extends the scientific basis or application of landscape ecology; statement on what you hope to gain professionally from attending the US-IALE Conference (200 words maximum); an explanation (200 words maximum) of why you need financial assistance to attend the conference. Acceptable formats include Microsoft Word, Wordperfect, Rich Text Format and Adobe Acrobat (pdf). Please put all materials into a single file. [Source: Africa-IALE List, International Association for Landscape Ecology]

### **IPDC-UNESCO Prize for Rural Communication**

Nominations are now open for the IPDC-UNESCO Prize for Rural Communication, which is to be awarded for the tenth time. The IPDC-UNESCO Prize, consisting of a sum of US \$20,000, is awarded every two years. This year deadline for submission is 1 October 2005. The Prize is intended to recognize a meritorious and innovative activity in improving communication in rural communities, mainly in developing countries. The prize will be awarded during the twenty-fifth session of the [Intergovernmental Council of the International Programme for the Development of Communication \(IPDC\)](#), which will be held at UNESCO Headquarters, Paris (France) from 21 to 23 March 2006.

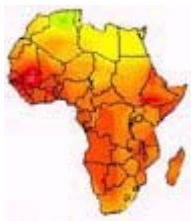
### **Prix PIDC-UNESCO pour la Communication Rurale**

Le processus de candidatures de la dixième édition du Prix PIDC-UNESCO pour la communication rurale vient d'être engagé. Le Prix PIDC-UNESCO, doté d'un montant de 20000 dollars des Etats-Unis, est décerné tous les deux ans. Cette année, la date limite de soumission a été fixée au 1er octobre 2005. Le Prix PIDC-UNESCO pour la communication rurale a été fondé pour honorer les activités méritoires et novatrices ayant pour objet d'améliorer la communication au sein des communautés rurales, en particulier dans les pays en développement. Le Prix sera décerné lors de la 25ème session du [Conseil Intergouvernemental du Programme International pour le Développement de la Communication \(PIDC\)](#), qui se tiendra au Siège de l'UNESCO, Paris (France), du 21 au 23 mars 2006.

## Employment Opportunities

### **Programme Officer, P-3**, Nairobi, Kenya

The post is assigned to the Ecosystems Section (Land) in the Division of Early Warning and Assessment (DEWA) of UNEP. The incumbent will, among other duties, participate in the development and management of UNEP's Global Assessment programmes of land cover land-use change, such as Global Land Cover Network (GLCN), Land Degradation Assessment in Drylands (LADA), International Assessment of Agricultural Science and Technology for Development (IAASTD) and follow-up of the Millennium Ecosystem Assessment. Required: advanced degree in Natural Sciences (agronomy, soils, geography, ecology) and with training/knowledge in remote sensing technology, or a first university degree with a relevant combination of academic and professional qualification; five years working experience in land/terrestrial resources



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evaluation, assessment, monitoring (through remote sensing and ground-based observations), related data analyses and management. Deadline: September 11, 2005.

### [Remote Sensing Trainer/Coordinator](#), Antananarivo, Madagascar & Washington, DC, USA

The Remote Sensing Trainer/Coordinator is based in Antananarivo, Madagascar to train technical staff from key Malagasy institutions in advanced remote sensing interpretation, validation methods, and GIS data processing/analysis techniques. The trainer/coordinator also provides technical guidance and oversight of project implementation. Candidates should have a background in monitoring of land cover/land use change in tropical environments; technical training and project management experience; French fluency; developing country experience. This job requires nine months in Antananarivo, Madagascar to coordinate and oversee project implementation and to spend the remainder of contract in DC to receive training and to coordinate with CI-CABS. Deadline: September 30, 2005.

### **Technicien SIG**, Saint Benoit, Ile de la Reunion

La Communauté Intercommunale Reunion Est (CIREST) recrute un technicien SIG. Les missions: traitement et gestion des données géographiques; développement et maintenance du SIG; animation et formation. Profil: Bac + 2 ou + 3 en Géomatique et Sciences géographiques ; Expérience professionnelle souhaitée sur missions similaires. Compétences et qualités requises: Maîtrise des outils SIG ARCGIS9 et ARCIMS9. Bonne connaissance des solutions métiers IMAGIS ; Parfaite connaissance des techniques de traitements graphiques et cartographique ; Connaissance si possible dans les langages de développement web. La date limite de réception des candidatures est fixée au 9 septembre 2005. Merci d'adresser lettre de motivation manuscrite et curriculum vitae par voie postale à : Monsieur le Président, 26B résidence le Manchey, rue leconte de lisle, BP124 97470 Saint-Benoit, [cirest@cirest.fr](mailto:cirest@cirest.fr). [Source: Le Portail Géomatique]

### [Coordinateur régional du programme Delta](#), Ouagadougou, Burkina Faso

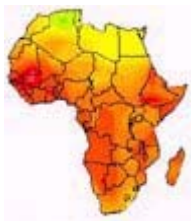
Le programme régional de l'UICN en Afrique de l'Ouest se construit autour de deux axes thématiques majeurs : le programme Delta dédié aux Zones humides, aux Ressources en Eau et aux Zones Côtière et Marine et le programme Acacia dédié aux zones Arides, aux Forêts et aux Aires Protégées. Le programme Delta rassemble un ensemble de programmes spécifiques, de projets de terrain et d'activités dans dix pays d'Afrique de l'Ouest, en partenariat avec de nombreuses institutions régionales, étatiques, para-étatiques et des ONG internationales et nationales. Les personnes intéressées peuvent envoyer une lettre de motivation accompagnée d'un curriculum vitae détaillé, des copies de leurs références universitaires ainsi que les nom et adresse de trois de personnes de référence dont au moins une est un ancien employeur avant le 4 septembre 2005.

### **Software/GIS Developers and GIS/IT Professionals**, Cairo, Egypt

The GIS Center of the Egyptian national statistics agency ([CAPMAS GISC](#)) is looking for Software/GIS Developers (Ref No. 1/2005) and GIS/IT Professionals (Ref No. 4/2005). Software/GIS Developers should have good experience in designing and developing applications; an engineering background or Computer Science; good experience in VBA, and VB6 programming; knowledge of .net programming; good experience in designing software; basic knowledge of database design concepts; and experience in implementing, applying, and using GIS in a number of advanced implementations is a plus. GIS/IT Professionals should have a university degree; good experience in the field of IT; GIS experience is a plus. To apply, submit your CV to: [eldib.amr@gmail.com](mailto:eldib.amr@gmail.com). Name the job vacancy and its reference number in the subject. [Source: EgyGIS Yahoo List]

### [Senior Lecturer/Lecturer in Plant Conservation Biology](#), Cape Town, South Africa

The Leslie Hill Institute for Plant Conservation is located within the Botany Department of [The University of Cape Town](#) and conducts a wide range of conservation research and teaching activities primarily concerned with the flora of the winter rainfall region of South Africa. The Institute is seeking to employ a Senior Lecturer/Lecturer with an interest in conservation science. The applicant should preferably have a PhD degree in plant conservation biology, (or related field), research experience in the conservation sector and a publication record. The incumbent will be required to develop a productive, independently-funded research programme, supervise and mentor postgraduate students, teach both undergraduate and postgraduate courses, assist with the administration of the Institute and participate in advising local government and conservation NGOs. Deadline: 2 September 2005.



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### **Professor in the Department of Environmental Science**, Gaborone, Botswana

Duties: The successful candidate will be expected to teach the following courses at the University of Botswana.: (i) Principle of Soil Science; (ii) Pedology; (iii) Soil Survey and Land Evaluation; (iv) Soil Geography; (v) Land Reclamation and (vi) Other courses in the Physical Environment assigned by the Head of Department. Requirements: Candidates must have: (i) PhD in Environmental Science/Physical Geography/Earth Science; (ii) a cumulative and sustained record of research and publications in their area of specialization in reputable publishing outlets; (iii) demonstrate evidence of academic leadership; (iv) at least three years teaching experience in a university or similar institution at the rank of Associate Professor; (v) computer literacy is mandatory and ability to teach any of the following will be an added advantage: Remote Sensing, Geographic Information Systems, Environmental Modelling. The University offers competitive salary & benefits. Vacancy No.: FSc/ES 2/2005. Deadline: open until filled.

### **Regional Coordinator, Central Africa**, Yaoundé, Cameroon

The Regional Coordinator will provide regional input on CIFOR forestry research priorities and support regional and collaborative research with partners. The RC will provide scientific leadership, identify strategic opportunities, develop and maintain functional partnerships, support capacity building initiatives, develop and maintain donor relations, and implement efficient administrative systems. He / she will support the research efforts of CIFOR scientists and collaborators, and ensure coordination with regional activities and research programmes.

### **Climate Change Project Coordinator** and **Climate Change Scientist**, Burkina Faso, Mali or Ghana

The Climate Adaptation Project is a CIFOR project covering three continents and seven countries (Indonesia, Burkina Faso, Mali, Ghana, Nicaragua, Honduras and Cost Rica). The project consists of five Work Packages that operate in a synergic manner:

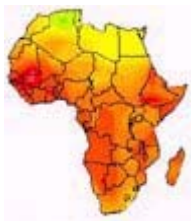
- Evaluation of impacts of climate change and climatic variability on tropical forest ecosystems
- Development of monitoring protocols to assess the impacts of climate change on tropical forest ecosystems, Development of tools for adaptation measures
- Development of criteria and indicators for adaptive forest management
- Science-policy dialogue in and across three regions.

### **Geekcorps Mali Program Manager**, Bamako, Mali

The [International Executive Service Corps](#), a 501(c)(3) international development nonprofit organization is looking for a passionate and experienced technology expert and advocate to manage its [Geekcorps](#) Mali program in Bamako, Mali. The Geekcorps Mali Program Manager is a full-time expatriate-level position, open to qualified candidates of any nationality. Geekcorps Mali is an established program with staff, volunteers, and facilities in Mali. Its main goal is to bring technology solutions to community radio stations in Mali, to increase the quality of information they have at their disposal, and to encourage sharing of information and programs between the radio stations. Due to its success, Geekcorps Mali has an increasing portfolio of projects and partners that include SchoolNet, Africare, and the University of Bamako. Candidates must have a) strong project management experience managing multiple ICT-based projects and staff in public & private industry. Familiarity with USAID grants and administration requirements, preferred; b) deep knowledge and understanding of information and communication technologies and their practical application in real-world environments. A focus in Linux programming or administration, connectivity (networking, wireless, satellite), and Free and Open Source Software preferred; c) previous success in identifying and developing winning ICT-based project opportunities and proposals from private industry and government sources, USAID preferred; and d) advanced French verbal and written language skills, and international work experience. Previous experience working in developing countries, especially West Africa, preferred. Email a resume, cover letter, link(s) to online portfolios and current contact information for three references to [jobs@iesc.org](mailto:jobs@iesc.org). Deadline: September 20, 2005.

### **Early Warning & Overall Disaster Management Consultant**, Somalia

The purpose of the consultancy is to support National Environment, Research and Disaster Preparedness Authority (NERAD) in early warning and overall disaster management, like coordination of structures with int'l NGOs and UN agencies. It will also help to update and review the disaster policy, preparedness and response and incorporate the CCCs Core Corporate Commitments for children. The consultant will need to develop a plan for training, workshops through discussions with partners involved in this activity. A work plan



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will also be developed to guide the consultant with time frame of six months containing a budget for conducting the below activities. The consultant will submit a separate detailed report after the completion time he/she conducts. PM&E will review the reports and provide their feedback and inputs. The consultancy work will run for six months starting from the day of recruitment. Contact: United Nations Children's Fund (UNICEF) Somalia Support Center, P.O. Box 44145, Nairobi, Kenya, [lawino@unicef.org](mailto:lawino@unicef.org). Deadline: September 5, 2005.

### [GIS Program Director](#), Redlands, CA, USA

This opening at the University of Redlands is part of a broad new GIS initiative at the University that will strengthen Redlands' current educational offerings in GIS, including the [MS GIS Program](#), infuse GIS education across the University, in the College of Arts and Sciences, the School of Business, and the School of Education, and implement GIS in the management of the University itself. The GIS Program Director is an administrative appointment that provides academic and administrative leadership for the MS GIS Program and supports the enhancement of GIS curricula throughout the College, including the development of a GIS undergraduate minor. Responsible for fiscal management and strategic planning for the MS GIS Program, including curriculum evaluation and revision, program administration, and faculty development. It is expected that the Program Director will teach half time in the MS GIS Program and help in the supervision of Major Individual Projects (thesis equivalent) for MS GIS students. Deadline: September 15, 2005.

### [Full Professor W3 "Spatial Planning in Developing Countries"](#), Dortmund, Germany

The call for applications has been extended until October 10, 2005.

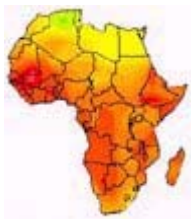
### [Lecturers in information systems and development](#), Manchester, U.K.

The Institute for Development Policy and Management ([IDPM](#)) at the University of Manchester (UK), is seeking additional lecturers in information systems and development to help meet the demand for MSc teaching, PhD supervision, funded research, and consultancy/advisory services.. Candidates should have interests and experience within the broad field of information, ICTs and socio-economic development. The successful candidates will ideally: be educated to Masters level or above in a relevant topic; have a track record of research and publication in information systems; have a track record of information systems teaching; be familiar with the realities of implementing and managing computerised information systems; have direct experience of information systems in developing economies through development, use or research into such systems; approach IS teaching and research from a socio-technical rather than technical standpoint; be capable of undertaking relevant consultancy assignments; have a flexible, innovative and customer-focused approach to their work. Informal questions about these posts can be made to [Dr. Richard Heeks](#). Deadline: September 12, 2005.

### [Director, World Conservation Monitoring Centre](#) (D-1), Cambridge, U.K.

Under the supervision of the Director of UNEP's Division of Early Warning and Assessment (DEWA), the incumbent will be responsible for the strategic management of the UNEP World Conservation Monitoring Centre (UNEP-WCMC), including policy development and implementation, planning, budgeting and operations. The incumbent will establish and implement policies and procedures to ensure that, as the principal source of biodiversity information both within UNEP and the UN system at large, the Centre provides effective and efficient services to governments, the secretariats of biodiversity-related multilateral environmental agreements, non-governmental organisations, the private sector, academic institutions and other key clients throughout the world. Deadline: September 21, 2005.

[Chief of Section](#), (P-5), Hydrological Processes and Climate, Division of Water Sciences, Natural Sciences Sector, UNESCO, Paris, France. Coordinates and assists the implementation of International Hydrological Programme (IHP) activities related to: a) Global change impacts assessment on the hydrological cycle; b) Ecohydrological and environmental processes; c) IHP contributions to the World Water Assessment Programme with a regular and systematic overview of the resources availability; d) activities with the World Meteorological Organization, the United Nations Environment Programme GEM/Water, the International Atomic Energy Agency, WCPWater, IAHS, GWSP, ICSCU with respect to climate variability and climate change and associated hydrological modelling, as well as global water quality; e) FRIEND (Flow Regimes from International Experimental and Network Data Sets) and HELP (Hydrology for the Environment, Life and Policy). Post number SC-242. Deadline: 4 September 2005.



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## Other

### [PE&RS Call For Papers for Special Issues](#)

Deadline October 1st, 2005 - "Forestry Lidar Applications"

Deadline December 31, 2005 - "Cloud-prone and Rainy areas Remote Sensing (CARRS)"

Deadline September 1, 2006 - "Web and Wireless GIS"

### [A Guide to Opportunities for Public Participation in Environmental Assessment Processes in SADC](#)

This guide contains a clear description of all the rights that communities and the public have to participation in environmental decision-making as conferred by international, regional and SADC region conventions, laws and policies related to environmental impact assessment and decision-making. This document has approached the rights issue from "an opportunity to participate" perspective, and is formatted around several key questions for each SADC country. [Source: Calabash Newsletter, May 2005, Issue #3]

### **Integration of biodiversity conservation into decision making processes**

The International Association for Impact Assessment (IAIA) recently launched a three year project aimed at improving the integration of biodiversity conservation into decision making processes, using environmental assessment as the key mechanism. Three pilot areas are being targeted, in South America, South East Asia and Southern Africa. The Southern African Institute for Environmental Assessment (SAIEA) was contracted by IAIA to coordinate the Southern African programme. Those who would like to be involved in this project, please contact [nico.willemse@saiea.com](mailto:nico.willemse@saiea.com). [Source: Calabash Newsletter, May 2005, Issue #3]

### [The Urban Transition in Sub-Saharan Africa: Implications for Economic Growth and Poverty Reduction](#)

### [New data on certified forests website](#)

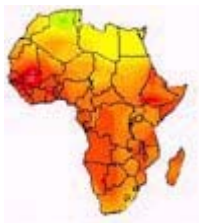
The certified forests site has been updated with August 2005 figures. Maps and figures are presented on the area of forest certified under the Forest Stewardship Council (FSC) on a regional and global basis. The area of certified forest has been proposed as an indicator of sustainable ecosystem management, and is amongst the [indicators selected for development](#) for use in monitoring the Convention for Biological Diversity's 2010 target. The FSC certification scheme ensures that timber is produced on a sustainable basis, and is one of the schemes mentioned. [Source: World Conservation Monitoring Centre]

[KM4D Journal](#) is an open access, peer-reviewed, community journal on knowledge management in development - for and by development practitioners and researchers. It includes diverse knowledge management approaches in development organizations, large and small, in the South and in the North, and aims to facilitate cross-fertilization between knowledge management and related fields. See the [first issue](#), Vol. 1, No. 1 (2005) - Supporting communities in development; tools and approaches.

## Conferences, Events

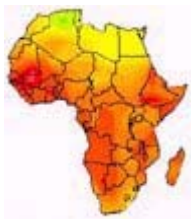
Items newly added to this listing of events since the last SDI-Africa issue are marked **\* NEW \***

Date	Location	Event
<b>September 2005</b>		
<b>September/October</b> <b>* NEW *</b>	Swakopmund, Namibia	<a href="#">Angola Benguela Currents Front Workshop/Coastal Monitoring Workshop</a>
<b>1-3 September</b>	Dead Sea, Jordan	<a href="#">Symposium on Land Administration in the Arab World - Challenges and Ambitions</a> <a href="#">Call for Papers</a> . Deadline for abstracts: <u>July 1, 2005</u> . Contact: <a href="mailto:dima.k@dls.gov.jo">dima.k@dls.gov.jo</a> .
<b>5-6 September</b>	Yaounde, Cameroon	<a href="#">CTO (Commonwealth Telecommunications Organisation) Forum 2005 - ICT Business and Development: The Challenge of Access</a> Contact: <a href="mailto:d.mertcan@cto.int">d.mertcan@cto.int</a> .



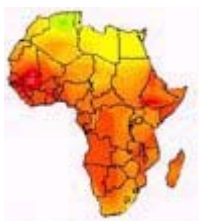
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5-7 September	Gauteng, South Africa	<a href="#">12th South African National Hydrology Symposium: Managing Water for People and the Environment</a> . Contact: <a href="mailto:stephenson@ebe.wits.ac.za">stephenson@ebe.wits.ac.za</a>
5-9 September	Cape Town, South Africa	<a href="#">14th Conference of Commonwealth Statisticians</a>
6-8 September	Bologna, Italy	<a href="#">River Basin Management 2005</a> - the third conference in the series which marks the growing international interest in the planning, design and management of river basin systems -- including all aspects of hydrology, ecology, environmental management, flood plains and wetlands.
6-8 September	Pretoria, South Africa	<a href="#">International Workshop on Strategies for Permanent Access to Scientific Information in Southern Africa: Focus on Health and Environmental Information for Sustainable Development</a>
6-9 September	Johannesburg, South Africa	<a href="#">ACT 2005 – Seventh Annual African Computing &amp; Telecommunications Summit</a> Presentation proposals deadline: 30 June 2005.
6-10 September	Cape Town, South Africa	<a href="#">2005 Society for South African Geographers (SSAG) Biennial Conference &amp; 2005 Annual Students Geographical Conference</a> The University of the Western Cape is hosting the Biennial Society for South African Geographers (SSAG) Conference in conjunction with the 36th Annual Students Geographical Conference. Contact: <a href="mailto:ssag2005@uwc.ac.za">ssag2005@uwc.ac.za</a>
7-9 September	Brno, Czech Republic	<a href="#">EnviInfo 2005 - Informatics for Environmental Protection - Networking Environmental Information</a> Deadline for abstracts: February 1, 2005.
7-9 September	Trier, Germany	<a href="#">1<sup>st</sup> International Conference on Remote Sensing and Geoinformation Processing in Assessment and Monitoring of Land Degradation and Desertification</a>
7-10 September	Nairobi, Kenya	<a href="#">Mapping for Change: International Conference on Participatory Spatial Information Management and Communication</a> Contact: <a href="mailto:pgis2005@itc.nl">pgis2005@itc.nl</a>
12-13 September	Cairo, Egypt	<a href="#">Arab Map 2005 - ITI 6<sup>th</sup> Arab GIS Conference</a> . Theme: Towards improved governance and a better environment. Prior to the conference, four training days (7-8, 10-11) will be offered in topics ranging from basic GIS and RS to advanced applications, e.g. e-government, location based services and environmental decision support systems. These courses will be led by instructors from both academia and industry. Abstract deadline: 1 June 2005.
12-14 September	Bologna, Italy	<a href="#">2nd International Conference on Sustainable Planning and Development (Sustainable Planning 2005)</a> The papers presented at Sustainable Planning 2005 will be published in volume 83 of <i>WIT Transactions on Ecology &amp; the Environment</i>
12-15 September <b>* NEW *</b>	Barrydale, Western Cape, South Africa	<a href="#">“Change in the Arid Zone” - Arid Zone Ecology Forum - Annual Meeting</a> . Contact: Kirsten Mahood, <a href="mailto:kirsten@enviroforest.co.za">kirsten@enviroforest.co.za</a> .
13-15 September	Tanta, Egypt	<a href="#">Water, Health and Environment 2005</a> Contact: Dr Bakenaz A. Zeydan, Conference General Secretary, Head of Water Engineering Department, Faculty of Engineering, Tanta University, <a href="mailto:bakenaz@dec1.tanta.edu.eg">bakenaz@dec1.tanta.edu.eg</a>
15-16 September	Montreal, Canada	<a href="#">ISO/TC 211 21st Plenary</a> <a href="http://www.isotc211.org/">http://www.isotc211.org/</a>



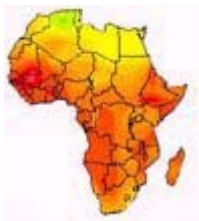
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<b>16-17 September</b>	Cambridge, U.K.	<a href="#">GEOMED 2005</a> is the fifth international, interdisciplinary conference on geomedical systems. GEOMED brings together statisticians, geographers, epidemiologists, computer scientists, and public health professionals to discuss methods of spatial analysis, as well as present and debate the results of such analyses. Deadline for abstracts: <u>15 May 2005</u> .
<b>(18-22 September)</b> <b>* NEW - postponed*</b>	To be determined	<a href="#">INTA29 - 1st Biennial on Territorial Development</a> . ( <a href="#">postponed and relocated</a> ; will not be held 18-22 Sept. in Morocco; most likely will be in Paris in November 2005) Contact: <a href="mailto:intainfo@inta-net.org">intainfo@inta-net.org</a> .
<b>19-23 September</b>	Goettingen, Germany	<a href="#">STORMA Symposium 2005</a> - The Stability of Rainforest Margins: Linking Ecological, Economic and Social Constraints of Land Use Conservation
<b>22-24 September</b>	Nairobi, Kenya	<a href="#">A planning workshop on Africa Network in Earth System Science – first announcement</a> Contact: Professor Eric Odada, University of Nairobi, <a href="mailto:eodada@uonbi.ac.ke">eodada@uonbi.ac.ke</a> or Professor Coleen Vogel of Witwatersrand, South Africa, <a href="mailto:vogelc@geoarc.wits.ac.za">vogelc@geoarc.wits.ac.za</a> .
<b>25-27 September</b>	Magdeburg, Germany	<a href="#">Second International ICSC Symposium on Information Technologies in Environmental Engineering (ITEE'2005)</a> Deadline for submission of papers: <u>February 28, 2005</u> .
<b>26-28 September</b>	Kuwait	<a href="#">Kuwait First International Remote Sensing Conference &amp; Exhibition</a> Deadline for abstracts: <u>June 30, 2005</u> .
<b>26-29 September</b>	Kartoum, Sudan	<a href="#">International Workshop on Space Technology for Peace, Rehabilitation and Development</a> Contact: Dr. Amna Hamid, Director, Remote Sensing Authority of Sudan, <a href="mailto:amnaah71@hotmail.com">amnaah71@hotmail.com</a> ; <a href="mailto:amnaahamid2000@yahoo.com">amnaahamid2000@yahoo.com</a> .
<b>27-30 September</b>	Dakar, Senegal	<a href="#">The Second African Ministerial Conference on Science and Technology of the African Union (AU) and the New Partnership for Africa's Development (NEPAD)</a> Contact: John Mugabe, <a href="mailto:john@nrf.ac.za">john@nrf.ac.za</a> .
<b>October 2005</b>		
<b>3-4 October</b>	New Delhi, India	<a href="#">Graticule 2005</a> International conference on positioning technologies - GPS, GLONASS, GALILEO and GAGAN. Contact: <a href="mailto:info@graticule.org">info@graticule.org</a> . Deadline for abstracts: <u>July 31, 2005</u> .
<b>3-7 October</b>	Frascati (Rome), Italy	<a href="#">TIGER Workshop</a> The workshop will bring together the TIGER stakeholders group (African water authorities, universities, technical centres, space agencies, development partners, etc..) in order to review the status of the TIGER initiative, analyse the information needs of the African water sector and plan the future developments of TIGER. Abstract deadline: <u>15 August 2005</u> . Contact: <a href="mailto:esa.conference.bureau@esa.int">esa.conference.bureau@esa.int</a> .
<b>3-7 October</b>	Nairobi, Kenya	<a href="#">3rd World Congress on Conservation Agriculture</a> . Theme: "Linking Production, Livelihoods and Conservation"
<b>5-8 October</b>	Johannesburg, South Africa	<a href="#">ACT 2005 – 7th Annual African Computing &amp; Telecommunications Summit</a> , Theme: "Matching investors & partners with African ICT enterprises & projects". Deadline for abstracts: <u>30 June 2005</u> .
<b>8-12 October</b>	Kansas City, Missouri, USA	<a href="#">Urban and Regional Information Systems Association (URISA)'s 43rd Annual Conference</a> Abstract deadline extended to: <u>February 11, 2005</u>
<b>9-13 October</b>	Bonn, Germany	<a href="#">6th Open Meeting of the Human Dimensions of Global Environmental Change Research Community</a>
<b>23-26 October</b>	Chicago, Illinois, USA	<a href="#">2005 ESRI Health GIS Conference</a> Contact: James Cox, <a href="mailto:jcox@esri.com">jcox@esri.com</a> .
<b>23-27 October</b>	Sioux Falls, South Dakota, USA	<a href="#">Pecora 16 - "Global Priorities in Land Remote Sensing"</a> Deadline for abstracts: <u>February 15, 2005</u> .



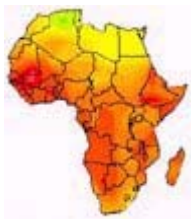
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<b>25-27 October</b> <b>* NEW *</b>	Addis Ababa, Ethiopia	<a href="#">The 6th UNGIWG (United Nations Geographic Information Working Group)</a> Contact: Mr. Michal Smolka, Geospatial Coordinator, ODAVAM, WFP-Rome, <a href="mailto:michal.smolka@wfp.org">michal.smolka@wfp.org</a> .
<b>25-29 October</b>	Kusadasi, Turkey	<a href="#">MEDCOAST 2005 – 7<sup>th</sup> International Conference on the Mediterrenan Coastal Environment</a> Deadline for abstracts: January 31, 2005.
<b>30 October – 4 November</b>	Pretoria, South Africa	<a href="#">AFRICAGIS '05</a> 7th bi-annual Africa GIS Conference. Theme: Beyond Talk: Geo-information working for Africa. This conference aims to take people beyond talking about what can be done with geo-information, to sharing information and experiences about what is being done on the continent and to showcase examples of where geo-information has made an impact on people's lives, particularly through local development and partnerships. Deadline for submission of abstracts: <u>15 April 2005</u> .
<b>31 October – 4 November</b>	Nairobi, Kenya	<a href="#">11th World Lake Conference</a> Theme: Management of Lake Basins for their Sustainable Use: Global Experiences and African Issues. Deadline for abstract: <u>April 15, 2005</u> . Contact: <a href="mailto:info@ileckkenya.go.ke">info@ileckkenya.go.ke</a>
<b>November 2005</b>		
<b>9-11 November</b>	Johannesburg, South Africa	<a href="#">Government Technology Africa 2005</a> - a forum where ideas are sourced, the latest technology is demonstrated and partnerships are formed to further the provision of better government services to the people.
<b>14-16 November</b>	Tunis, Tunisia	<a href="#">IRFD World Forum on Information Society</a> . Organized by the the International Research Foundation for Development. One of the Session Themes is Geographical Information System and Sustainable Information Society. Abstract deadline: <u>March 31, 2005</u> . Contact: <a href="mailto:wfis2005@irfd.org">wfis2005@irfd.org</a> .
<b>14-16 November</b>	Rabat, Morocco	<a href="#">UN/ESA Workshop on Spatial Information and Sustainable Development. Workshop international en Télédétection et SIG</a> . Date limite d'envoi des résumés: <u>15 septembre 2005</u> . Contact: Prof. EMRAN Anas, <a href="mailto:emran@israbat.ac.ma">emran@israbat.ac.ma</a> , or Dr. TRACHE Abdelhak <a href="mailto:trache@emi.ac.ma">trache@emi.ac.ma</a> .
<b>14-16 November</b>	Dakar, Senegal	<a href="#">Rural Development and the Role of Biomass</a> - International workshop as part of the <a href="#">Development and Climate Project</a> . Deadline for abstracts: <u>August 1, 2005</u> . Contact: <a href="mailto:marcel.kok@mnp.nl">marcel.kok@mnp.nl</a> and <a href="mailto:rutu.dave@mnp.nl">rutu.dave@mnp.nl</a> .
<b>15-17 November</b>	Accra, Ghana	<a href="#">1<sup>st</sup> African Regional Conference of Vice Chancellors, Provosts, and Deans of Science, Engineering, and Technology</a> . Theme: The state of science and technology training institutions in Africa and their role in socio-economic development. Contact: <a href="mailto:info@ansticonference.org">info@ansticonference.org</a> .
<b>16-18 November</b>	Tunis, Tunisia	<a href="#">World Summit on the Information Society</a> – 2 <sup>nd</sup> phase
<b>20-23 November</b> <b>* NEW *</b>	Abu-Dhabi & Al-Ain, UAE	<a href="#">UN/ESA/NASA Workshop on the International Heliophysical Year (IHY 2007)</a> Deadline for applications: 1 September 2005.
<b>24-25 November</b>	Ankara, Turkey	<a href="#">ISPRS WGII/2 Workshop on 'Spatial/spatio-temporal data mining and learning'</a> . Deadline for extended abstracts: <u>19 August 2005</u> . Contact: <a href="mailto:wwwsdm05@metu.edu.tr">wwwsdm05@metu.edu.tr</a> .
<b>25-26 November</b>	Rabat, Morocco	<a href="#">4<sup>th</sup> National Congress, Ordre National des Ingénierus Géomètres Topographes</a> Theme: For a land administration policy serving development. Deadline for abstracts: <u>20 August 2005</u> . Contact: <a href="mailto:onigt@yahoo.fr">onigt@yahoo.fr</a>



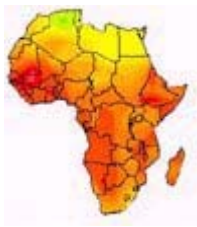
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27 November – 2 December	Yaounde, Cameroon	<a href="#">Colloque Africain Systemes d'Information et Traitement de l'Image et du Signal (SITIS) / International Conference on Signal-Image Technology and Internet-Based Systems (SITIS'05)</a> Deadline for abstract submission: <u>May 15, 2005</u> ; proposals for tutorials due: <u>June 15, 2005</u> . Contact: <a href="mailto:sitis@u-bourgogne.fr">sitis@u-bourgogne.fr</a> .
28-29 November	Pretoria, South Africa	<a href="#">International Conference on the Changing Politics of Land in Africa Domestic Policies, Crisis Management, and Regional Norms</a> Deadline for papers: <u>April 30, 2005</u> .
<b>December 2005</b>		
1-2 December * NEW *	Bangkok, Thailand	<a href="#">1st International Symposium on Health GIS</a> Contact: <a href="mailto:healthgis@gmail.com">healthgis@gmail.com</a> .
1-3 December * NEW *	Arusha, Tanzania	<b>Fifth TAWIRI Annual Scientific Conference (5thTASC)</b> . Theme: "People and Wildlife: Promoting Conservation while Balancing Needs." Deadline for abstracts: <u>September 30, 2005</u> . Contact: <a href="mailto:tawiri@habari.co.tz">tawiri@habari.co.tz</a> .
5-9 December * NEW *	San Francisco, CA, USA	<b>"Transforming Geoscience Access through Standards Implementation"</b> session of the <a href="#">2005 American Geophysical Union (AGU) Fall Meeting</a> . Deadline: <u>September 8, 2005</u> .
6-8 December	Sharm El-Sheikh, Egypt	<a href="#">Middle East and Africa Conference for ESRI Users</a> Deadline for abstracts: <u>1 June 2005</u> . Contact: <a href="mailto:meuc2005@qs4it.com">meuc2005@qs4it.com</a> . The first 2 days before the conference, (4-5 December 2005) are designed to benefit GIS managers. You are welcome to register for pre-conference seminars: Cadastral and land registry, Dec. 4th, Cost: \$250; Planning and Managing GIS, Dec. 5th, Cost: \$100; Web Services, Dec. 5th, Cost: \$100.
8-10 December * NEW *	Hong Kong SAR, China	<a href="#">2005 International Symposium on GPS/GNSS</a> Contact: <a href="mailto:lswuchen@polyu.edu.hk">lswuchen@polyu.edu.hk</a> .
16-21 December	Cairo, Egypt	<a href="#">13th International Conference of the Geological Society of Africa on Geology and Development</a> . Local lead organisation, the Egyptian National Authority for Remote Sensing and Space Sciences (NARSS). Contact: Dr Mahmoud Abdeen, GSAf Vice-President (North Africa), <a href="mailto:m_m_abdeen@hotmail.com">m_m_abdeen@hotmail.com</a>
<b>January 2006</b>		
4-7 January 2006	Cairo, Egypt	<a href="#">Environmental Change in Lakes, Lagoons &amp; Wetlands of the Southern Mediterranean Region (ECOLLAW): 1st International Conference</a> Abstracts should be submitted online by <u>1 July 2005</u> .
<b>February 2006</b>		
13-16 February 2006	Cairo, Egypt	<a href="#">GAW8 - 8th International Conference On The Geology Of The ARAB World</a> . Deadline for abstracts: <u>September 30, 2005</u> .
14-16 February	Ankara, Turkey	<a href="#">ISPRS WG I/5 &amp; I/6 Workshop on Topographic Mapping from Space</a>
<b>March 2006</b>		
March 2006	Dubai, UAE	<b>Map Middle East 2006</b> . Contact: <a href="mailto:gis@dm.gov.ae">gis@dm.gov.ae</a> . <a href="http://www.gis.gov.ae/en/news/news.asp?ID=64">http://www.gis.gov.ae/en/news/news.asp?ID=64</a>
5-10 March 2005	Stellenbosch, South Africa	<a href="#">International Precision Forestry Symposium</a> Deadline for abstracts: <u>September 30, 2005</u> . Contact: <a href="mailto:packer@sun.ac.za">packer@sun.ac.za</a> .
9-12 March 2006	Accra, Ghana	<a href="#">5th FIG Regional Conference for Africa</a> Theme: "Promoting Land Administration and Good Governance". This conference is co-sponsored by UN FAO, UN-Habitat, UN ECA, RECTAS, ISM, etc. This conference will also be the first FIG regional conference in West Africa. The deadline for abstracts is <u>10 November 2005</u> .



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<b>16-22 March 2006</b>	Mexico City, Mexico	<a href="#">4th World Water Forum</a> The main theme of the Forum will be "Local actions for a global challenge". A series of regional meetings will be held throughout the preparatory phase in order to identify good practices and learn lessons from shared experiences, as well as to support and encourage local commitments. Guiding principles, main objectives, framework themes and topic sessions available for comments in the <a href="#">concept paper</a> .
<b>20-23 March 2006</b>	Al Ain, Abu Dhabi, UAE	<a href="#">6th International Conference on the Geology of the Middle East</a> Abstract deadline: <u>September 1, 2005</u> .
<b>April 2006</b>		
<b>May 2006</b>		
<b>7-12 May 2006</b>	New Orleans, LA, USA	<a href="#">Intergraph 2006 Conference</a>
<b>8-11 May 2006</b>	Enschede, the Netherlands	<a href="#">ISPRS Commission VII Mid-term Symposium</a> Remote sensing: from pixels to processes. Deadline for abstracts: <u>October 30, 2005</u> . Contact: <a href="mailto:isprsc7@itc.nl">isprsc7@itc.nl</a> .
<b>15-17 May 2006</b>	Aalborg, Denmark	<a href="#">UDMS 2006 – 25<sup>th</sup> Urban Data Management Symposium</a> Abstract submission deadline: <u>September 30, 2005</u> . Contact: <a href="mailto:e.fendel@otb.tudelft.nl">e.fendel@otb.tudelft.nl</a> .
<b>22-25 May 2006</b> <b>* NEW *</b>	Marrakech, Morocco	<a href="#">Integrated Water Resources Management and Challenges of Sustainable Development / Gestion Intégrée des Ressources en Eaux et Défis du Développement Durable (GIRE3D)</a> Contact: Dr. Nour-Eddine Laftouhi, <a href="mailto:gire3d@ucam.ac.ma">gire3d@ucam.ac.ma</a> ; <a href="mailto:nouredine.laftouhi@ucam.ac.ma">nouredine.laftouhi@ucam.ac.ma</a> .
<b>25-26 May 2006</b>	Orlando, Florida, USA	<b>ISO/TC 211 22nd Plenary</b> <a href="http://www.isotc211.org/">http://www.isotc211.org/</a>
<b>June 2006</b>		
<b>July 2006</b>		
<b>9-15 July 2006</b>	Philadelphia, PA, USA	<a href="#">IUSS 18th World Congress of Soil Science</a>
<b>13-17 July 2006</b>	Wollongong and Sydney, Australia	<a href="#">COAST - GIS 06 - 7th International Symposium on GIS and Computer Cartography for Coastal Zone Management</a> . GIS for the coastal zone: Spatial Data, Modelling and Management; Extending the Spatial Data Infrastructure. Collaboration between the International Cartographic Association's Commission on Marine Cartography and the Int'l Geographical Union's Commission on Coastal Systems. Abstract deadline: 31 December 2005.
<b>31 July – 4 August 2006</b>	Denver, Colorado, USA	<a href="#">IEEE/IGARSS 2006</a> Contact: <a href="mailto:ieeegrss@adelphia.net">ieeegrss@adelphia.net</a> .
<b>August 2006</b>		
<b>7-11 August 2006</b>	San Diego, CA, USA	<a href="#">ESRI International User Conference 2006</a>
<b>September 2006</b>		
<b>12-15 September 2006</b>	Lausanne, Switzerland	<a href="#">Foss4g 2006</a> The conference will focus on various free and open source technologies and their implementations around the world. It will also host the user meeting conferences for Open Source projects like GRASS, MAPSERVER and other EO GEO projects.
<b>October 2006</b>		
<b>8-13 October 2006</b> <b>* NEW *</b>	Munich, Germany	<a href="#">FIG Working Week 2005 and XXVIII General Assembly</a> . Deadline for abstracts: <u>15 March 2006</u> . Contact: <a href="mailto:congress.director@fig2006.de">congress.director@fig2006.de</a> .
<b>October 2006</b>	Cairo, Egypt	<b>6<sup>th</sup> African Association of Remote Sensing of the Environment (AARSE) Conference</b> . Contact: <a href="mailto:aarse@rcmrd.org">aarse@rcmrd.org</a> .



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<b>October 2006</b>	Beijing, China	<b>20<sup>th</sup> CODATA (Committee on Data for Science and Technology) Conference</b> Contact: <a href="mailto:codata@dial.oleane.com">codata@dial.oleane.com</a> .
<b>November 2006</b>		
<b>4-11 November 2006</b> <b>* NEW (dates have been revised)*</b>	Santiago, Chile	<b>9<sup>th</sup> International Conference on Global Spatial Data Infrastructure</b> organized by the <a href="#">GSDI Association</a> & <a href="#">Instituto Geográfico Militar</a> . Contact: <a href="mailto:gsdi9@igm.cl">gsdi9@igm.cl</a>
<b>14-15 November 2006</b>	Riyadh, Saudi Arabia	<b>ISO/TC 211 23rd Plenary</b> <a href="http://www.isotc211.org/">http://www.isotc211.org/</a>
<b>December 2006</b>		
<b>2007</b>		
<b>15-20 July 2007</b> <b>* NEW *</b>	Cambridge, UK	<b><a href="#">Cambridge Conference 2007</a></b>

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Global Spatial Data Infrastructure Association

<http://www.gsdi.org>

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