

Spatial Data Infrastructure – Africa Newsletter

SDI-Africa Newsletter

February 2005

Vol. 4, No. 2

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 forward this newsletter onto 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

Input to this Issue

Thank you to Bheki Ginindza, SwaGIS (Swaziland); Lawrence Nsoyuni, IUCN (Cameroon); Sadig Elamin, UN OCHA (Sudan); Roger Longhorn, Info-Dynamics Research Associates Ltd (U.K.); Derek Clarke, Chief Directorate: Surveys and Mapping (South Africa), Larry Tieszen, USGS EROS Data Center (USA); and Daniel Berhanu, UN Economic Commission for Africa (Ethiopia) for their contributions to this issue of the newsletter.

SDI News, Links, Papers, Presentations

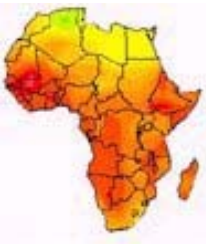
[Get actively involved in discussions about SDI-Africa issues – sign up for the SDI-Africa discussion list](#)

The Global Spatial Data Infrastructure Association (GSDI) has established several email discussion lists so that colleagues may more actively generate and participate in discussions about spatial data infrastructure activities.

- 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 new lists. Initially you must click on and subscribe to each list individually. **[Note that subscribing to any of these lists is separate from being on the SDI newsletter mailing list]**. Once you are subscribed 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.

The FIG/GSDI Conference is only three months away – [see draft program and workshops](#), Cairo, Egypt, April 16-21, 2005. The [FIG Working Weeks 2005 and 8th International Conference on Global Spatial Data Infrastructure](#) is only three months away. [Check out the draft technical programme for presentations/papers](#). From almost 500



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abstracts more than 300 have been selected to more than 50 technical sessions. In addition to technical sessions there are several pre-conference workshops on Saturday and Sunday prior the conference:

- Standards Workshop – Standards into Action
- Virtual Academy and the Surveying/Geoinformatics Community
- History of Surveying
- Mobile Mapping Technology
- e-Government for e-Citizens
- ESRI Seminar - GIS: The Business of National Mapping
- An Intergraph vision, technology and implementation seminar

Attendance to these workshops is free to those delegates who register for the whole week (pre-registration is however compulsory). During the week also several roundtable discussions will be organised on different topics.

Sudan Interagency Mapping Workshop, Nairobi, Kenya, 18-19 January 2005

Due to the recent signing of the comprehensive peace agreement, it is anticipated that assistance activities will increase. Furthermore, it is also envisaged that the increase in assistance will in turn generate a huge demand for mapping products to assist agencies in analytical and planning processes. It is under this background that the United Nations Office for Coordination of Humanitarian Affairs (OCHA-Sudan) recently held the Sudan Interagency Mapping Workshop in Nairobi, 18-19 January 2005. The overall objective of the workshop was to bring together stakeholders working in Sudan to discuss possible ways for future collaboration and coordination of mapping activities. Within this general framework, the meeting had the following specific objectives;

- Review the past and current mapping activities and evaluate the progress so far in terms of the completion and accuracy of the various map layers (administrative boundaries, drainage, road network, settlements/villages etc)
- Understand the current policy framework on mapping (both north and south) e.g the use of GPS, official administrative settlements/villages etc.)
- Discuss the immediate mapping needs following the signing of peace agreement
- Establish a mechanism for compiling a comprehensive listing of settlements for Sudan
- Explore possibilities of establishing a central sharing mechanism of spatial data so as to avoid duplication of efforts and ensure data integrity and consistency.

The meeting was attended by a diverse and experienced group of stakeholders, which allowed for useful discussions as well as outcomes agreed upon through consensus. Issues particularly related to data exchange and standardization were discussed in detail. Among the key outcome was an agreed action plan to coordinate data exchange and provide support to key national institutions in various ways including capacity building and information access toward the planned national population census following the comprehensive peace agreement.

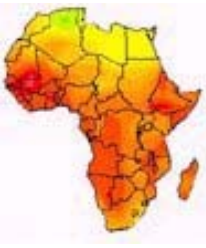
For more information and queries on SIM Working Group or mapping Related activities in Sudan, kindly contact sim@unsudanig.org.

Mozambican President Joaquim Chissano visits country's national land management bodies

January 17, 2005, Maputo: Mozambican President Joaquim Chissano recognises that over the past decade there have been significant improvements in the administration and control of land. Chissano was speaking during a visit to the National Mapping and Teledetection Centre (CENACARTA) and to the National Land Directorate (DINAGECA), two specialist units of the Agriculture Ministry. Chissano said that new technologies have made it easier to issue land titles, and to clarify land use procedures. "Although there is still a lot to be done in this area of land distribution, today technical staff involved in this matter can ensure a great deal of security in control, inspection and distribution", he said. As for mapping, Chissano said he could personally testify to the progress made in producing the maps needed to plan the work of various governmental and private institutions, and for development projects where environmental impact studies must be undertaken. [Source: Agencia de Informacao de Mocambique (Maputo), allafrica.com]

Shake up at the Ugandan land registry office

[Commentary] The Land registry office in Kampala has been hit by fraud. Processing titles has become a nightmare. There are also many forged titles in existence. Some people have been deprived of their interests in land due to inefficient operations of the titles' office. Most fraud occurs during transfers or purchase of land. Most shocking is the revelation from security that some land dealers who have made a fortune from fraudulent dealings planned to burn



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the records to conceal information. Imagine what would happen if all the titles were destroyed! There would be total chaos.

Kampala Mailo office is the custodian of all the land titles in Kampala, Wakiso and Mpigi districts. It therefore has the responsibility for the validity and security of all the registered information therein. The Registrar's office should be able to verify ownership every time a property is sold, mortgaged or other interests created. This office needs to be automated. All titles should be maintained on an electronic database showing current owner, outstanding registered interests such as mortgages or caveats. The Land's office can borrow a leaf from the National Water and Sewerage Corporation which now has graphic, and map-based searches on its database.

Land is a highly priced commodity in this country. It is natural that people dealing in it should have their transactions processed quickly and accurately. It is also reasonable for them to expect good services and records provided in a timely manner. Faster service and accurate records and greater security for the titles are required. Buyers also need to be alert when buying land or property.

All titles issued fraudulently should be confiscated and cancelled and the perpetrators of the fraud prosecuted. Although the World Bank has stepped in to help with computerisation of the process, the problem will not be addressed unless the corrupt officials are punished. [Source: New Vision (Kampala), January 14, 2005, [allafrica.com](#)]

Interactive Forestry Atlas of Cameroon to be launched in Brazzaville, Congo

Version 1.0 of the Interactive Forestry Atlas of Cameroon has been completed and will be launched at the 2nd high-level meeting of the [Congo Basin Forest Partnership](#), scheduled to take place in Brazzaville, Congo, 4-5 February 2005. Global Forest Watch and Ministry of Environment and Forests of Cameroon (MINEF), with the participation of local partners Cameroon Environmental Watch and Limbé Botanical and Zoological Gardens, collected data on forest titles and zoning (UFA, forest concessions, ventes de coupe, community forests, protected areas, etc.) and on the status of forest management plans for each UFA. GFW trained MINEF staff and partners to use remote sensing and satellite images to analyze forest condition and detect logging roads. The datasets and resulting analysis are part of the Interactive Forestry Atlas of Cameroon. The Atlas, a valuable decision support tool, will be available on the GFW website and the MINEF website. To maximize its use, targeted training activities for government staff, parliamentarians, and NGOs will be designed and conducted. Training will focus on using the Atlas and incorporating it into daily operational activities of key decision makers.

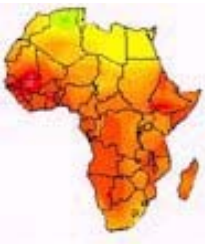
[Swaziland GIS Association \(SwaGIS\) Annual General Meeting](#), 27 January 2005, Mbabane, Swaziland

Theme: Effective Utilisation of GIS (hardware and software). This is an opportunity for practitioners, professionals, user organizations, sponsors and vendors to meet and forge a future for SwaGIS, This will bringing prosperity to the use of GIS in sustainable development to SwaGIS members and the communities SwaGIS serves.

[Customary land registration process in Namibia hits snags](#)

Lack of transport and mapping equipment have hit the communal land boards to the extent that they are unable to process applications for new and existing customary land rights effectively. The process of registration of customary land rights started on March 1, 2003 and is supposed to run until March 1, 2006. Alfred Sikopo, chief development planner in the Ministry of Lands, Resettlement and Rehabilitation said traditional authorities were allocated land in the past and no records were kept, which led to people claiming land that was not theirs. Although he could not tell the number of applications that are expected from customary land rights holders, Sikopo said the response from the public was very slow. He said the ministry had conducted workshops all over the country to raise awareness on the issue but up until now, only a few people have filled in application forms. "People are just reluctant. They don't seem to understand why they should apply for land that they have," Sikopo said. Each application, which is made through the communal land boards in each region, is supposed to be verified and mapped, but due to lack of transport to the areas, as well as equipment, many applications are still pending approval. [Source: New Era (Windhoek), January 11, 2005, [allafrica.com](#)]

Mapping Africa for Africa (MAFA) initiating user-needs analysis for fundamental geospatial datasets (see tender announcement in employment section of this newsletter). The Mapping Africa for Africa initiative aims to address the issue of the lack of accurate, reliable and up-to-date fundamental geo-spatial datasets in Africa. As part of this initiative, it is necessary to determine, from a user perspective, what makes up the fundamental geo-spatial datasets. A needs- or demand-driven approach is required to ensure the effectiveness of the collection and



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maintenance of these fundamental geo-spatial datasets. An investigation is being commissioned to determine what are regarded (from a user perspective) as the fundamental geo-spatial datasets (excluding economic and demographic information). The report will be submitted by 15 April 2005, in time for the next CODI-Geo meeting. The report will be discussed at CODI, along with the report on data content guidelines being prepared by USGS/EDC, EIS-AFRICA, and SAC/CSIR.

[Sub regional Water/Geo Information Clearinghouse Development and Management Workshops](#)

UN-Water/Africa has been holding a series of sub regional Water/Geo Information Clearinghouse Development and Management Workshops. The workshops are being undertaken with the aim of developing an African Regional Water Clearinghouse that will provide the basis for creation of a regional community on water issues by bringing together educational, governmental, nonprofit, & commercial entities interested in water research, conservation, and management. So the first three workshops for Central Africa, West Africa and East Africa successfully have been conducted with attendance of more than 75 participants from 25 countries. The remaining two sub regional trainings will be held in the coming March and April.

[Water/Geo Information Clearinghouse Development and Management Workshop, Pretoria, South Africa](#), 2-9 March 2005. This workshop will be followed by a two day Implementation Workshop (7-8 March) and a one day Gender and Water Seminar (9 March 2005).

[Water/Geo Information Clearinghouse Development and Management Workshop, Cairo, Egypt](#), 14-17 April 2004

This workshop will be held as a pre-conference workshop to the 8th International Conference for Global Spatial Data Infrastructure (GSDI-8) and FIG Working Week.

[Nominations sought for participants for workshop on Knowledge Sharing for Local Development](#)

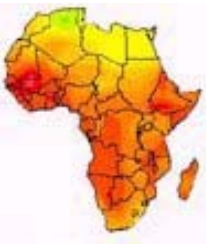
The second phase of the World Summit on the Information Society (WSIS) will convene in November 2005 in Tunis, Tunisia. In anticipation of this event, the United Nations Development Programme's Special Unit for South-South Collaboration (UNDP/SSC) is cooperating with TWAS – the academy of sciences for the developing world – and the Third World Network of Scientific Organizations (TWNSO) to produce a new volume in the 'Sharing Innovative Experiences' series of publications. The volume of case studies will focus on successful applications of knowledge sharing initiatives for local development in developing countries. To identify examples of such successful knowledge sharing initiatives, UNDP/SSC, TWAS and TWNSO are now inviting nominations for participants to attend a workshop that will lead to the publication of the 'Sharing Innovative Experiences' volume of case studies. Case studies could focus on networks and other conduits for sharing knowledge in the broadcast or print media, or using new information and communication technologies. National and local governmental agencies, nongovernmental organizations and scientific and technological institutions are invited to propose potential contributors by 28 February 2005 (email: info@twnso.org). Proposed contributors will be contacted in order to develop a short abstract. An expert advisory board will review all the proposals and select 20 to 30 to be presented at a workshop to be held at the headquarters of TWNSO in Trieste, Italy, on 4-6 July 2005. Authors will be expected to present full length 'success stories', which will then be edited by TWNSO for inclusion in the 'Sharing Innovative Experiences' volume, which will be published in time for launching at the WSIS in November 2005.

-- SDI news from the U.K.

[Preparing the way for a national infrastructure of addresses, with related mapping and property information](#)

"Acacia" is the name given to a recent programme of work jointly undertaken by a number of bodies - the Valuation Office Agency (VOA), Land Registry, Registers of Scotland, Ordnance Survey, Local Government Information House and Royal Mail - which hold extensive property data and, in particular, address information. The programme has been considering how to join up these data sources to form one, accurate, up to date and readily accessible national infrastructure of addresses, along with related mapping and property information. The vision is to promote the development of: *a definitive, consistent and joined-up national infrastructure of property addresses and related data with the related mapping so as to facilitate major economies, efficiencies and service improvements both in the public sector and throughout the economy.*

Details of the work that has been undertaken is contained in reports which are available online to assist future planning. ([pilot report](#)) ([final progress report](#))



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Deadline for submissions for AfricaGIS 2005 extended until 15 February 2005

The deadline for submission of abstracts for the [Africa GIS 2005 Conference](#) has been extended until 15 February 2005. After the holiday season, it came to the Conference organizers' attention that the Africa GIS 2005 conference website had been down since late December 2004, so the extended deadline will provide added time for interested parties to submit their submissions. Note [sponsorship](#) and [exhibition](#) opportunities associated with the conference. General inquiries, info@africagis2005.org.za.

[ArcGIS West Africa User Conference & Local Government GIS Day](#), 30 March – April 1 2005, Accra, Ghana. [Sambus Company Ltd.](#) is organizing the 1st ArcGIS West Africa Local User Conference & Local Government GIS Day. This two-part conference will be held in Accra, Ghana at the La Palm Royal Beach Hotel. The date for the local user conference will be 30-31 March and the Local Government GIS Day will be held 1 April 2005. The theme for the conference is: "GIS: an effective tool for governance". GIS experts from ESRI's offices in Redlands, California will give presentations on the latest developments in GIS. This will be an excellent opportunity to meet the experts and other users to share and exchange valuable ideas. Exhibitions and Poster Presentations will be held as well – so do take advantage and submit your work to be included in the Conference. There is limited space for exhibitions, and there is a small fee, so contact Sambus as soon as possible. The registration fee for West Africa User Conference is \$100 per participant and \$30 for the Local Government Conference. If more than 2 persons attend from one institution, a discount will be offered. Registration includes sessions, lunch and conference materials but excludes accommodation and transportation. Closing date for [registration](#) and exhibitions is 4 March 2005.

Dates for CODI IV have been set for 25-28 April 2005

The Fourth Meeting of the Committee on Development Information will be held in Addis Ababa, Ethiopia from 25-28 April 2005 at the United Nations Conference Centre. The theme of the meeting will be: Information as an Economic Resource. The [Committee on Development Information \(CODI\)](#) is one of the different subsidiary bodies of the [Economic Commission for Africa](#) established in 1997 by the Conference of African Ministers responsible for Economic and Social Development and Planning. The Development Information Services Division (DISD) of the ECA is responsible for this CODI sessions, which gather information and communication technologies experts, statisticians, librarians, and geo-information experts who are government officials of the member States of the Commission. The CODI meetings are also open to non-government delegations.

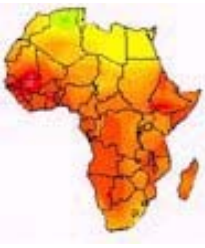
La Quatrième Réunion de CODI se tiendra à Addis Abeba, Ethiopie du 25 au 28 avril 2005 au Centre de Conférence des Nations Unies. Le thème de la Conférence Cette année sera: L'Information en tant que Ressource Economique.

[Pecora 16 - "Global Priorities in Land Remote Sensing"](#), Sioux Falls, South Dakota, USA. 23-27 October 2005

The Pecora Conference series was established by the U.S. Geological Survey and NASA in the 1970s as a means of sharing ideas and experiences resulting from the use of remotely sensed data. The objectives of the Pecora Conferences are 1) to foster the exchange of scientific information, resource management conclusions, and results of other practical applications derived from the use of land remotely sensed data; and 2) to provide a forum for discussing ideas, policies, and strategies on land remote sensing. This year, ASPRS is a co-organizer of the meeting with the USGS EROS Data Center. Sponsoring agencies include NASA, NOAA, USDA, EPA, CoE, NGA, FGDC, and DOE. The Pecora 16 Technical Program Committee particularly seeks oral presentations and poster papers that address the four global priorities (and sub-categories) in land remote sensing listed below.

- Advancing Scientific and Practical Applications of Remotely Sensed Data
- Data Availability, Access, and Preservation
- Advancing the Technology of Land Remote Sensing
- Securing a Stable Future for Satellite Land Remote Sensing

Presentations and papers that address other global priorities in land remote sensing also are welcome. Deadline for [submissions](#) 15 February 2005.



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[Ricoh introduces GPS-ready digital camera](#)

January 20, 2005: Ricoh Corporation launched the [Pro G3](#), a high-resolution digital camera that embeds captured images with GPS coordinate information received from either its on-board GPS unit or from external GPS devices. Once these captured 'geo-images' are transferred to a PC, they are automatically converted to shape files or merged to geo-databases for instant integration into Geographic Information Systems (GIS). Points representing each image's position may be hovered over to display a thumbnail, or clicked on to access the full-size image. In addition to storing GPS data in the image, the camera also utilizes a user-configurable data dictionary for tagging pictures with workflow-related information. These attributes are easily accessible from the GIS layer table for automated database integration.

[ERSDAC now accepting observation requests of ASTER from general users](#)

[ERSDAC](#) has started accepting observation request from all users, the General Programming Request (GPR) of ASTER data, from November, 2004. GPR is a service that users can submit observation requests, and to obtain high quality observation data at low price. GPR is recommended especially for users who:

- Want to obtain the latest ASTER data of the specific area.
- Cannot find any data of interest from the data search of observed data.
- Want to obtain data observed in a specific season.

Only the data successfully observed are distributed to the users by GPR. Therefore, if the cloud cover rate was high and could not obtain the desired data, users are not required to purchase the data. Contact: Earth Remote Sensing Data Analysis Center, gpr_office@asterops.ersdac.or.jp.

[Release of GeoServer 1.2.4 includes completely redone user documentation](#)

The GeoServer Project has released version 1.2.4 of GeoServer, which is the reference implementation of the OGC's Web Feature Service specification. GeoServer is a completely open source Java application, and now includes a web administration tool, and an integrated WMS. The goal of the project is to provide easy-to-use, high performance, freely available software that enforces open standards. You can browse the new docs online [here](#). The release includes a number of bug fixes and contributions from the community, including translation of the web admin tool into Spanish, internationalization improvements, and a few key fixes to the web admin tool. Please see the [release notes](#) for more information. [The release is available in .exe, binary, source, and war downloads.](#)

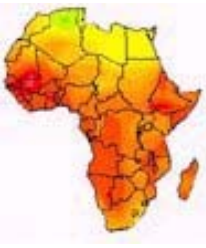
South African government makes available free Landsat imagery for Southern Africa [*repeat announcement, first included in SDI-Africa Vol 3, No. 9 - September 2004*]

The Chief Directorate of Surveys and Mapping, of the Department of Land Affairs, South Africa has entered into an agreement with the Satellite Application Centre (SAC) at Hartebeesthoek, South Africa, to provide Landsat imagery free of charge to all African Government organizations, academia, non-commercial researchers and NGO's working in the development field in the region. The imagery is available for the reception footprint area of the SAC Landsat antenna. Imagery will be available in terms of this agreement until 31 March 2005. Requesters will only have to pay for the CD and postage and packaging costs. Requests for imagery must be submitted, together with proof of their organization, to [Satellite Application Centre](#), PO Box 395, Pretoria, 0001, South Africa, customersac@csir.co.za. The Chief Directorate of Surveys and Mapping, of the Department of Land Affairs, as the national mapping organization of South Africa hopes that African countries will use this imagery extensively in support of their sustainable development programmes, including national mapping.

The [online CGIAR-CSI Metadata Resource Center](#) has been enhanced and updated to provide a complete introduction and full learning resource for supporting geospatial metadata efforts. This resource is aimed at the persons directly involved with entering metadata and as an overview for others. It serves as an overview of metadata, and general introduction on how to use the Metadata Resource Center as a continuing source of information for correct metadata entry.

[OpenOffice.org goes Swahili](#)

The software, called Jambo OpenOffice, is available for free and is similar in functionality to Microsoft's popular Office programs (even produces PDF files as one of the "Save File" options). The initial release of Jambo OpenOffice, which



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follows four months work, is a test version. This initial version will only work on the Linux operating system, but the final release, which is due in February 2005, will also work on Windows. Download here: <http://www.kilinux.org/>
Additional announcement: Swahili is spoken in many African nations, including Kenya, Tanzania, Uganda, Malawi, Mozambique and parts of the Horn of Africa and the Great Lakes region. Meanwhile, most computer operating systems and software in Swahili-speaking areas are in English or French. "Swahili is the biggest common denominator - it's what people think and talk in. We should try to get people educated in their own language."

Geospatial Research, Applications, Reference Material

[Proceedings of the 5th AARSE Conference – Geoinformation Sciences in Support of Africa's Development, October 18-21, 2004](#) (note that paper are grouped by session and files are in ZIP format). [Conference homepage](#).

[Proceedings of the Conference on Standardization in the Cadastral Domain](#), December 9-10, 2004, Bamberg, Germany

[Papers from the UN/USA International Meeting on the Use and Applications of Global Navigation Satellite Systems \(GNSS\)](#), 13-17 December 2004, Vienna, Austria
[Current status of AFREF](#); [Report on GNSS application development initiatives in Zambia and the sub-region](#); [The progress of the implementation of proposed projects on the applications of GNSS in the management of environment and natural resources](#)

[Socioeconomic Data in Relation to the Integrated Global Observing Strategy Partnership \(IGOS-P\)](#)

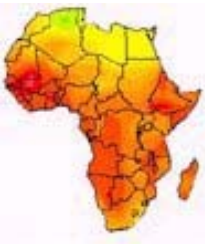
The International Council for Science (ICSU) in cooperation with the IGOS Co-Chairs organized a one-day meeting on the topic "Socioeconomic Data in Relation to IGOS-P" in September 2004; the recommendations of this meeting are presented in this report. [At the Forum on Science, Technology, and Innovation for Sustainable Development, which was held in parallel to the WSSD in 2002, IGOS and the International Social Science Council (ISSC) jointly organized a session that explored the issue of integrating data on the natural environment with socioeconomic information for better decision making. It was entitled the "[The Role of the Global Observing Systems in Sustainable Development](#)". Participants in the session noted the gap between existing environmental observing systems and socioeconomic ones and concluded that there was a need for socioeconomic observations that provide data for integrated, coupled, human/geophysical models at local, regional and global levels].

Workshop on SRTM, GIS, and Flood forecasting

A regional workshop on the application of remotely sensed data, SRTM data, and GIS-based hydrologic modeling for forecasting floods was held 8-19 November 2004 in Niamey, Niger. Staff from the [EROS Data Center](#), Sioux Falls and the AGRHYMET Regional Center, Niamey conducted the workshop. The workshop was sponsored jointly by AGRHYMET/USAID, USGS/FEWS Net, and USAID/EMIS. The Workshop participants were drawn from the nine countries of the CILSS region, namely: Burkina, Cape Verde, Chad, The Gambia, Guinea-Bissau, Mali, Mauritania, Niger and Senegal as well as from the four regional river basin authorities the Niger Basin Authority (NBA), Lake Chad Basin Commission (LCBC), Organization for the Development of the Senegal River (OMVS), and Organization for the Development of the River Gambia (OMVG). The workshop partakers were officers of the national hydrologic services and employees of projects working in the field of hydrology in their respective countries. Officers that deal with hydrologic analysis and applications, monitoring and early warning, water resources estimation and extreme hydrological events predictions. The workshop training sessions included introductory GIS sessions, and a more in depth training on a GIS-based hydrologic model developed by researchers at EROS Data Center. In the planning is an activity to give the required technical support for the operationalization of the flood forecasting system to the institutions that had employees trained during the workshop. Proceedings will be online at the EDC website.

[Satellite imagery helps gorilla protection in Virunga Conservation Area \(DRC, Rwanda and Uganda\)](#)

In a race against time for the mountain gorillas and many other species indigenous to these natural areas, scientists at the Woods Hole Research Center (WHRC) in Woods Hole, MA, are working with NASA and conservationists in the Virunga National Park to stave off further destruction of the lands. "Remote sensing is the only tool that we have to



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efficiently monitor these remote parks," says Nadine Laporte, head of the Africa Program at WHRC. "Satellite imagery allows park managers to update park property boundaries, map forest habitat, and look at encroachment of the park by comparing images from two different dates." Laporte is working with conservation groups to create a monitoring system that combines NASA satellite imagery with aerial flight and field surveys, all of which can be relayed to and coordinated with local park rangers on the ground.

[Report of the Fifth Southern Africa Fire Network \(SAFNET\) Workshop](#)

The 5th Southern Africa Fire Network workshop was held in Mangochi, Malawi, 9-13 August 2004 under the theme: "Towards Meeting Fire Management Challenges in Southern Africa". The workshop was attended by 34 participants from 14 countries, of which 12 were from southern Africa (Angola, Botswana, DRC, Lesotho, Malawi, Mozambique, Namibia, South Africa, Swaziland, Tanzania, Zambia, Zimbabwe), one was from Senegal, and the other from the USA. Attending for the first time were participants from Lesotho, Tanzania, DRC and Swaziland - increasing countries where SAFNet has points of contact to 12 southern African countries. Tanzania also brings fire experience from the East Africa region, while the representative from Senegal contributed the case for the West Africa region. As a result this SAFNet workshop provided a broad coverage of African fire issues.

Training Opportunities

[Training opportunities at the Regional Centre for Training in Aerospace Surveys \(RECTAS\)](#)

The courses at the Centre are taught in English and French. The Centre presently offers long term courses in Geoinformation Production and Management at the [Post-Graduate diploma](#), [Technologist diploma](#) and [Technician diploma](#) levels with specialisation in Photogrammetry and Remote sensing, Geographic Information System or Cartography. RECTAS also conducts on special request, customised training in the above mentioned field to suit the individual needs of member states and organizations. The next 18-month Technician and Technologist courses in Geoinformation Production and Management of the Regional Centre for Training in Aerospace Surveys (RECTAS) will commence on 1 March 2005. The next Postgraduate Diploma Course in Geoinformation Production and Management (with the three specialisation options) and the Joint ITC/RECTAS MSc Course in Geoinformatics will commence on 1 September 2005. Interested applicants should complete the application form which can be downloaded from RECTAS website. Details about training costs are also at the RECTAS website. Applicants should note that a BSc is compulsory for the MSc admission.

EuroSDR Education Service – 2 week distance e-learning courses

[3 short \(two-week\) eLearning courses](#) commencing in April 2005 aimed at providers, users, students and teachers of Geographical Information related topics and services in Europe and worldwide. EduServ this year consists this year of the following courses::

1. Co-ordinate Reference Systems and Transformations for Spatial Position, hosted by the Dublin Institute of Technology, Ireland
2. Positional accuracy improvement in GI Databases, hosted by EuroSDR Commission 4
3. Digital Cameras/Sensors, hosted by Ohio State University, USA.

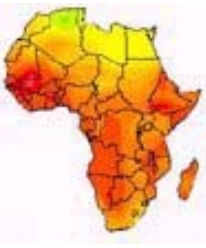
Each course will be offered over a two-week period via the Internet and will involve extensive access to the course tutors, all of whom are expert in the subject matter of the courses. Course fees start at EURO 750. Participants are expected to attend a 2-day pre-course workshop commencing March 31, 2005 at the Dublin Institute of Technology, Ireland. For more information contact the [EuroSDR Secretariat](#). The closing date for [applications](#) is 4 March 2005. [Source: EUROGI]

[The Vespucci Initiative for the Advancement of Geographic Information Science announces the 3rd Annual Summer School on Geographic Information Science](#) - Preliminary Programs – to be refined

Urban and Urgent Risk Management:U2RM - Week 1 (4-8 July 2005), near Fiesole (Florence), Italy

Spatial Data Infrastructures and the Spatial GRID - Week 2 (11-15 July 2005), near Fiesole (Florence), Italy

The Summer School is aimed at researchers from the university, commercial, and government sectors. It provides an inspiring and productive opportunity for peer-to-peer interaction with leading international experts in the field. Attendees will be selected based on merit, and according to space limitations. If you are interested in attending, please apply before 15 March 2005 to the address 2005summer@vespucci.org.



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[Workshop on Climate Variability over Africa](#), 6-17 March 2005, Alexandria, Egypt

The Workshop is intended to review recent progress in understanding climate variability and trends (of both natural and anthropogenic origin) over Africa, and their impact on the hydrological resources of the continent. It is open to young researchers and PhD students working in the areas of Atmospheric Physics and Dynamics, Climatology and Oceanography, from countries in Africa that are members of the United Nations, UNESCO, or IAEA. The number of participants will be strictly limited to no more than 40. Financial support may be requested only by candidates who are nationals of, and working in, an African country, and who are not more than 45 years old. Limited funds are available for a few participants, to be selected by the Organizers, and who accept to attend the entire activity. The [application form](#) should be completed and submitted by 20 February 2005. Contact: Azhraf Zakey, zakey@chem.gu.se.

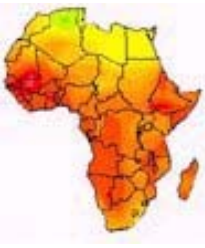
[Analysis of Spatial Data for Human Dimensions Research - User Workshop](#), 6-8 October 2005, Königswinter, Germany ([Pre Open-Meeting Training Seminar - 6th Open Meeting of the Human Dimensions of Global Environmental Change Research Community](#)) The purpose of this workshop is to provide researchers (particularly young and/or developing country researchers) with training in cutting edge approaches for spatial data integration and analysis. The workshop requires prior understanding of GIS and statistical analysis. Candidates must already know how to carry out basic spatial manipulations such as performing queries and creating buffers, and how to do basic regression analysis. The first part of the workshop will focus on global data sets relevant to the human dimensions research community, with a particular focus on the construction and use of socioeconomic as well as ecological data sets such as the Gridded Population of the World, the urban extents database, and global malnutrition, infant mortality and global land cover data sets. Attention will also be paid to key biophysical and infrastructure data sets (e.g. climate, agricultural suitability, transportation, distance to ports, land use and land cover, digital elevation information and other data sets) for analytical and data integration purposes. Deadline: February 15, 2005.

[Nippon Foundation/General Bathymetric Chart of the Oceans \(GEBCO\) Training Project – Postgraduate certificate in ocean bathymetry at the University of New Hampshire, USA \(2005-2006\)](#)

The success of [GEBCO](#) depends on a relatively small number of active individuals. In order to broaden the GEBCO community and to encourage more younger scientists and hydrographers to become involved in mapping the ocean floor, GEBCO proposed, and the Nippon Foundation accepted, the training of a new generation of younger scientists and hydrographers, mostly from less developed countries, in a Postgraduate Certificate in Ocean Bathymetry (PCOB) at the University of New Hampshire (UNH), USA. Once trained, some of the PCOB holders will then have the opportunity to work on Bathymetric Capacity Building Projects designed to provide tangible products with which the returnees can demonstrate the value of bathymetry, with support to organize and convert data within their area, and with basic resources to help them become established. This scheme will ensure that the training is immediately put to good use and that the trained personnel are helped to take the first step in their new careers. The selection process will aim at choosing candidates from a wide geographic distribution of coastal developing countries. Preliminary applications should be emailed to the Project Director as soon as possible ([click here to download the preliminary application form as a Word document](#)) and not later than 25 February, 2005. Contact for further information: nfg_project_manager@ccom.unh.edu.

[Les Formations Post-Universitaires - Informatique appliquée aux Sciences de l'Eau & Eau pour l'Agriculture et l'Approvisionnement des Communautés](#)

L'Ecole Inter-Etats d'Ingénieurs de l'Équipement Rural (EIER) organise chaque année, avec le concours de divers partenaires scientifiques et financiers (France, Suisse, Danemark, AUF, etc.) des Formations Post-Universitaires dans le spécialisation Informatique appliquée aux Sciences de l'Eau. Les formation recrutent au niveau maîtrise ès sciences ou ingénieur. L'Ecole Inter-Etats d'Ingénieurs de l'Équipement Rural (EIER) a été créée en 1968 et a son siège à Ouagadougou au Burkina Faso. L'EIER compose avec l'Ecole Inter-Etats des Techniciens Supérieurs de l'Hydraulique et de l'Équipement Rural (ETSHER) le Groupe des Ecoles EIER-ETSHER qui regroupe 14 Etats membres africains francophones qui sont : Bénin, Burkina Faso, Cameroun, Centrafrique, Congo, Côte D'Ivoire, Gabon, Guinée, Mali, Mauritanie, Niger, Sénégal, Tchad, Togo. L'admission aux cycles de formation se fait après un test organisé dans la capitale de chaque Etat membre. Le test de recrutement pour la rentrée 2005-2006 aura lieu le mardi 29 mars 2005. La date limite de dépôt des demandes d'inscription est fixée au 28 février 2005.



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Les candidats sont invités à solliciter une bourse complète auprès de leur employeur ou d'organisations telles que : PNUD, FAO, UNESCO, OMS, FED, USAID, etc. Dans le cas d'une issue favorable à cette requête, la demande d'inscription doit être accompagnée d'un engagement de prise en charge d'une bourse complète de la part de l'organisme concerné. En cas d'admissibilité après le test, l'EIER fournit un certificat de préinscription pour appuyer les demandes de bourses.

[Introduction to Geographical Information Systems for Teachers](#), 1-4 March 2005, Pretoria, South Africa

Continuing Education at University of Pretoria offers Southern Africa's developing economy a wide range of service offerings. This Teacher Training course, meant for school teachers, especially grade 10-12 Geography teachers, is offered by the Department of Geography, Geo-informatics and Meteorology. It focuses on the inclusion of GIS in the new revised 2006 Grade 10-12 Geography Syllabus. Given that this is a relative new field, many Geography Teachers will have little or no knowledge of GIS theory and practice. The aim of this short course is to introduce Geography Teachers to the theoretical concepts and practical applications of GIS. In addition the Teachers will also learn about the methodology for teaching GIS concepts. The course will also introduce methods to teach the basic GIS concepts by way of paper-based exercises. Upon completion of the course the teachers should have a good understanding of GIS concepts and methods and also how GIS can be introduced into the Geography Curriculum. At the end of this study programme the delegate should demonstrate adequate knowledge on: what a GIS is the process and possible applications of GIS the methods of the integration of GIS in Geography teaching. In planning the course content the 2006 Grade 10-12 Geography School Syllabus was taken into account. The skills set listed in the syllabus are as follows: general geographical information concepts in Grade 10, data acquisition and data processing in Grade 11 and data management, data manipulation, spatial analysis and application development in Grade 12. The course consists of 3 study units: Basic Concepts and Terminology In GIS The GIS Process and Project The Methods of GIS integration in Geography Teaching. Course leader: Mrs S Eksteen, eksteens@postino.up.ac.za. Course No. P000575.

The [Beahrs Environmental Leadership Program](#) at the University of California, Berkeley, is seeking applicants for the 2005 Summer Certificate Course in Sustainable Environmental Management. The [2005 summer certificate course](#) will take place from 25 June-16 July, 2005. The Beahrs ELP seeks participants who are mid-career environmental and development professionals from academia, government, NGOs and the private sector. A limited number of partial scholarships are available. Application review begins 1 February, and applications must be received no later than 1 March 2005.

[DAAD Alumni Summer School “Topics of Integrated Watershed Management”](#), Siegen University, 12-25 April 2005. Participants: priority target groups are professionals and academics from Eastern Africa (Ethiopia, Kenya, Uganda, and Tanzania) qualifying as German Alumni, e.g. persons who studied in Germany or with German support (sur place scholarships). In total, 25 participants are expected. Participants are requested to submit papers/case studies/posters to be presented by January 31, 2005 to Ruger Winnege: summerschool2005@fb10.uni-siegen.de. Contact: Prof. Dr. –Ing. G. Förch, U Siegen, FWU: foerch@fb10.uni-siegen.de

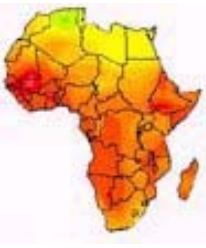
Funding Opportunities, Awards, Support

[UNESCO Small Grants Programme for Poverty Eradication](#)

UNESCO wishes to encourage research and policy analysis focusing on the relationship between poverty and human rights. The [UNESCO Small Grants Programme](#) will provide individual project grants in the amount of \$10,000 (upper ceiling) to institutionally-based mid-career professionals at universities, specialized research centres, relevant Government departments, NGOs, etc., in the targeted regions of the world – selected on a competitive basis. This funding is intended to cover the direct costs of the research, including the local travel and subsistence of the principal researcher(s) and research assistants, acquisition of relevant literature and supplies, data collection, analysis, and report preparation. Deadline March 31, 2005.

[UNESCO Information for All Program](#)

UNESCO calls for proposals for projects to be funded by its Information for All Programme, an international information society initiative launched in 2001. Proposals with budgets ranging from approximately US\$25,000



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(national projects) to US\$45,000 (international projects) should cover one of three areas: information literacy, preservation of information, and ethical, legal and societal implications of the information society. Projects shall have specific, measurable, achievable, realistic and time bound objectives and be operationally, technically and financially feasible. They must include an evaluation component. Projects submitted should also contribute to the achievement of the Millennium Development Goals and correspond to the areas of the Action Plan adopted by the World Summit on the Information Society. Applications must be submitted no later than February 20, 2005. Project applicants must complete [on-line project proposals forms](#) where detailed submission guidelines are available.

[Academic Competition for ModelBuilder Users](#)

University faculty and students who use ArcGIS Desktop ModelBuilder are invited to submit models that relate to geospatial analysis and GIS or remote sensing to the Best Practices in Science Modeling Competition. ESRI will accept entries until April 15, 2005. Individual faculty and student/faculty teams are eligible to participate to earn cash awards totaling \$10,000. Results will be announced on June 20, 2005. Winners will have a special presentation at the 2005 ESRI International User Conference, July 25–29, 2005, in San Diego, California.

[2005 Geospatial Achievement Awards Program](#)

The Intergraph GeoSpatial Users Community (IGUC) and Intergraph Mapping and Geospatial Solutions invite you to participate in the 2005 Geospatial Achievement Awards program. This program honors organizations that have embraced geospatial technology to better serve their communities or constituencies. The Geospatial Achievement Award program also recognizes users for implementing innovative and technologically advanced solutions, setting the standard for others to follow. By their extraordinary contributions to their community, these Intergraph Mapping and Geospatial Solutions' users set a new precedent. Entry Categories:

Government Solutions, Military and Intelligence Solutions, Earth Imaging Solutions, Transportation Industry Solutions, Utilities and Communications Industry Solutions, Applications Development

Entries will be judged by an Intergraph Mapping and Geospatial Solutions' review committee. Only one award in each category will be presented. The individual or team selected as the award recipient in each category will receive a special recognition award. One complimentary registration to [GeoSpatial World 2005](#) will also be provided to each winning entry. Presentation of the awards will take place at GeoSpatial World 2005, April 26-28, 2005 in San Francisco, California, during a special awards ceremony on April 27 immediately following the keynote address. Entry deadline: March 15, 2005.

[APC Hafkin Prize](#)

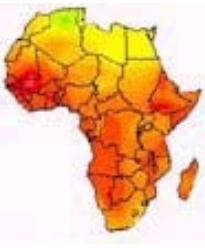
The theme for this year's APC Hafkin Prize recognises community initiatives that use the internet and other digital communication networks to access markets, skills and opportunities to derive real economic benefits. The competition is open to civil society organisations, government institutions, educational organisations, community-based groups, networks, social movements or individuals anywhere in Africa. The Prize is USD\$7,500.00 will be shared amongst up to three winning initiatives. Applications will be accepted in both English and French. Deadline for nominations: February 14, 2005. Contact: hafkin-prize@apc.org.

[Le Prix APC Hafkin](#)

Le thème du prix de cette année reconnaît les initiatives communautaires qui utilisent internet et d'autres réseaux de communication numérique pour accéder aux marchés, aux compétences et aux possibilités pour obtenir des avantages économiques tangibles. Le concours est ouvert aux organisations de la société civile, aux institutions gouvernementales, aux organisations d'enseignement, aux groupes communautaires, aux réseaux, aux mouvements sociaux ou aux particuliers partout en Afrique. Les demandes seront acceptées en français et en anglais. Le Priz 7500 \$ US, sera partagé entre les trois initiatives lauréates. Date limite pour les nominations: 14 février 2005. Contact: hafkin-prize@apc.org.

[Competition launched for 2nd Development Gateway Award](#)

Nominations are sought for the second Development Gateway Award. The \$100,000 award will recognize outstanding achievement in using information and communication technologies (ICT) to improve people's lives in developing countries. The first award, previously called the Petersberg Prize, was given earlier this year to the Grameen Bank-Village Phone project, through which women entrepreneurs can start a business providing wireless payphone service in rural areas of Bangladesh. Grameen Bank-Village Phone was chosen from over 200 nominations



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for its significant impact in creating a new class of women entrepreneurs who have raised themselves from poverty while serving their communities. An international panel of independent jurors will review and select the finalists and winner of the second award, which will be presented in mid-2005. The deadline for submission is February 28, 2005. For information, rules, and access to the online nomination form.

[2nd round of GenARDIS – a small grants fund for gender & agriculture/rural development in the Information Society](#) The Technical Centre for Agricultural and Rural Cooperation ACP-EU (CTA), the International Development Research Centre (IDRC), the International Institute for Communication and Development (IICD) and the Humanist Institute for Cooperation with Developing Countries (Hivos) are inviting applications for the second round of the Gender and Agriculture/Rural Development in the Information Society (GenARDIS) Small Grants Programme to support innovative activities that contribute to the understanding of gender issues in ICTs and to the gender-sensitive application of ICTs in ACP agricultural and rural development. This is a competitive call for applications for 10 non-renewable grants of up to 5,000 Euros. The deadline for receipt of applications is 25 February 2005. An expert panel will judge the submissions. Announcement of the successful applicants is expected to be made on 11 April 2005. Read the full-text announcement and download the application form.

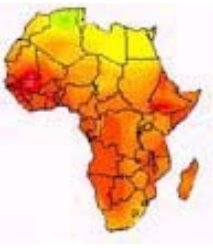
[Russell E. Train Fellowship Program – Zambia, Tanzania](#)
[Programa de Bolsas de Estudo “Russell E. Train” – Mozambique](#)

Effective policy, education, fieldwork, and other conservation initiatives depend on sound technical knowledge and skills. Through Russell E. Train Fellowships, EFN invests in the academic training of conservationists in Africa, Asia, and Latin America in a wide variety of disciplines so that they may gain the knowledge and skills necessary to manage natural resources in diverse and complex contexts. EFN supports both interdisciplinary and specialized studies and allows grantees to pursue opportunities wherever most appropriate, whether in one's home country or overseas. Train Fellowships assist individuals pursuing master's and doctoral degrees. All Train Fellows must have significant conservation experience, leadership potential in their fields, and a commitment to advance conservation in their home countries and regions. The application deadline for Zambia, Tanzania, and Mozambique is February 28, 2005.

[WWF Education for Nature \(EFN\) Professional Development Grants](#) support training-related costs for mid-career conservation professionals to attend short-courses, workshops, and conferences. You must be a citizen or legal resident of an eligible country. Costs covered include registration fees and tuition, meals and accommodations, books and materials, international travel, and local transportation. Training may take place anywhere in the world. Typical grants range in amount from \$1,500 to \$5,000. You may complete the EFN Professional Development Grant application online after answering a few simple questions to determine your eligibility. Applicants who require funds in less than 90 days of submitting their applications will not be considered.

[WWF Education for Nature \(EFN\) Workshop Grants](#) support community groups, NGOs, government agencies, and educational institutions to conduct training workshops and other capacity building activities. Costs covered include travel expenses, meals and accommodations, room rentals, materials, and other related costs. Administrative costs should be no more than 15 percent of the requested amount. Typical grants are between \$1,500 and \$7,500. Your organization must have an established presence in an eligible country. Training must take place within six months of submission of the application. Organizations that require funds in less than 90 days of submitting an application will not be considered for funding. here is no application deadline. Grants are awarded to deserving proposals on a first-come, first-served basis.

[H. J. Heinz Company Foundation Fellowship Program 2005/2006](#) University Center for International Studies, University of Pittsburgh. The Fellowship is offered annually and provides for one year of practical, professional, and non-degree educational experiences through the University of Pittsburgh in Pittsburgh, Pennsylvania, USA. For each round, Heinz Fellowships will be granted to two individuals from developing countries who demonstrate potential as future leaders in the government, non-profit, or private sectors. Applicants for this non-degree program should complete the [Heinz Fellowship Program Application Forms](#). Completed applications must be received no later than March 15, 2005. Late materials will not be considered. University Center for International Studies, 4G29 Posvar Hall, University of Pittsburgh, Pittsburgh, PA 15260, E-mail: heinz@ucis.pitt.edu.



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2005 FIG Foundation Grants

Applications should be submitted to the FIG Foundation at the FIG Office by 15 March 2005. The FIG Foundation offers total grants up to 20,000 € in 2005. The maximum grant will normally be 1,000 € per applicant. The [guidance notes](#) for the application are available online, as well as the [application form](#).

[2005-2006 Digital Vision Fellowships](#)

The Program awards approximately twelve fellowships per year to exceptional social entrepreneurs and technology professionals from around the world. Successful candidates have innovative ideas and are passionate about implementing a project to empower individuals and communities in the developing world. For this academic year, work categories include: Low cost Internet connectivity networks, devices and interfaces and Community-building “social” software and learning tools. The application deadline is Tuesday, March 15, 2005.

[2005-2006 Digital Vision Scholarships](#)

Six Digital Vision Scholarships for 2005-06 are being offered, courtesy of the Reuters Foundation, the Google Corporation and the Advanced Micro Devices Corporation. Digital Vision Scholarships help defray the living expenses for the duration of the 9-month program. They are awarded in addition to the Stanford University Fellowship funded by the Reuters Foundation. Recipients are from developing world countries.

[Marine Science for Management \(MASMA\) Call for Letters of Intent](#)

[Western Indian Ocean Marine Science Association \(WIOMSA\)](#) promotes marine research through the awarding of research funds under the [Marine Science for Management \(MASMA\)](#) and the Marine Research Grant (MARG) Programmes. MASMA is a competitive grant scheme designed to support research projects for up to three years. MASMA funds, which range from US \$ 15,000 to 50,000 per annum, are available to multi-disciplinary teams of senior researchers from the region. The grant will enable researchers to support postgraduate students in their research works as well as to purchase equipment, expendable supplies, literature, etc. All those interested in seeking support for relevant research activities within the priority themes should submit letters of intent and CV. Full proposals will be accepted from applicants who have submitted Letters of Intent and have been specifically encouraged by the Programme Committee of MASMA to submit full proposals. Also, the Programme Committee may group researchers and proposals before inviting them to jointly submit full proposals. Researchers submitting Letters of Intent that have not already managed to form necessary network capacity to fulfill the research objectives are asked to indicate complementary capacities needed in the Letter of Intent. Letters of Intent should be submitted to the WIOMSA Secretariat by fax, email or ordinary mail by 15 March 2005.

[Call for proposals to Support Organization of Training Courses/Workshops and Publication of Books](#)

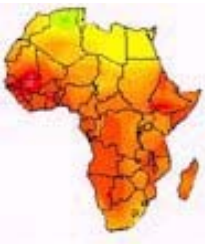
In addition to providing research grants to support approved research proposals seeking to address priority themes, Marine Science for Management (MASMA) programme provides grants to support organization of training courses/workshops and publication of books. To be eligible for a MASMA Grant, you must meet the following criteria:

- Applicants will be expected to demonstrate established credibility in conducting capacity building activities in the selected priority theme area
- Education background: The Principal Applicant should have attained an education level of at least a MSc. or MA degree in marine science
- The grant is specific for individuals and/or research teams from the Western Indian Ocean (WIO) region. However, individuals and/or research teams may involve scientists from Sweden as appropriate, and cover their costs from the grant funds applied for. The involvement/participation of the Swedish scientists may not exceed three months annually.

[Call for proposals](#) is announced once a year. Proposals should be submitted to the WIOMSA Secretariat by fax, email or ordinary mail by 15 March 2005.

Employment Opportunities

[Anglophone Lecturers in Photogrammetry, GIS, and Cartography](#), Ile-Ife, Osun State, Nigeria
[Francophone Lecturers in Photogrammetry, GIS, and Cartography](#), Ile-Ife, Osun State, Nigeria



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Regional Centre for Training in Aerospace Surveys (RECTAS) seeks Lecturers with M.Sc degree or its equivalent in Geoinformatics or related discipline preferably with at least three (3) years post qualification cognate experience in a tertiary institution of University standing or other comparable institutions. A Ph.D and published articles in reputed scientific magazines or journals is an advantage. Evidence of creative work and/or specialization in the relevant discipline is required. Ability to conceive and execute course programmes and consultancy projects is desirable. Deadline: 28 February 2005.

Tender: GIS for the Nigerian National Electric Power Authority (NEPA) for the Transmission Development Project. Deadline: February 24, 2005.

Tender - Determination of the fundamental geo-spatial datasets for Africa through user needs analysis

Enquiries: Mr D. Clarke, [Chief Directorate: Surveys and Mapping](#), Tel. (021) 658-4301, Fax. (021) 689-1351; or Mrs T. Soetzenberg, Tel. (021) 658-4318, Fax. (021)689-9422 Tender No. SSC-WC2/2005 DLA, published 14 February 2005. Tenderers (service providers) will not be restricted to South Africans but payment will be made to a South African Bank. This means tenderers will need to have a registered account in south Africa or alternatively work through an agent in South Africa. Tender closes on 10 February 2005.

GIS Developers, Application Developers, GIS Sales, Cairo, Egypt

[Globe Telecom](#) is seeking to hire highly motivated and energetic individuals for several different positions.

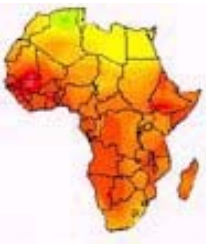
- 1) GIS Developers (GSD) should have a minimum of 2 years experience in GIS application development. Graduates of ITI/MCIT training programs are preferred. Experience with GeoMedia and Intergraph products is an asset.
 - 2) Application Developers (APD) must have experience in software development and have mastered at least 2 different programming tools (Java, VB, asp.net, C++ ...etc). Applicants should have a minimum of 2 years practical experience in similar areas of applications, and an ability to design & develop S/W applications under 4GL RDBMS environment (e.g: Oracle, Informix, Sybase ...etc) is a plus.
 - 4) GIS Sales (GJS) - two positions are available: Senior GIS Sales (5 – 7) years experience and Junior GIS Sales (1 – 3) years experience. Both positions require a GIS background. Graduates of ITI/MCIT training programs are preferred. Perfect communications (English, Arabic) and presentations skills required.
- Send your CV to both e-mails: globe.telecom@gmail.com, and globetelecom_jobs@yahoo.com. Specify the job code as the email subject (e.g., Jobs 1,4; Jobs 2,4). [Source: EgyGIS Yahoo Group]

Fisheries Scientist, Accra, Ghana

Under the direction of the Guinea Current Large Marine Ecosystem (GCLME) Regional Director, the Fisheries Scientist shall be responsible for information capture, exchange and networking between a wide range of participants in the GCLME including government officials, scientists, non-governmental organizations and the public at large on issues related to fisheries. One activity involves working with the GIS/EIS Expert in the development and maintenance of the project fisheries information management tools (Information Systems, DBMS, GIS). Deadline: 15 February 2005.

Senior Technical Advisor, Serengeti National Park, Tanzania

This new post with the [Frankfurt Zoological Society \(FZS\)](#) is based in the world famous Serengeti ecosystem, with frequent travel to Zambia's North Luangwa ecosystem. You will be the project leader for a new 5-year project that aims to develop and test new ways of building and sustaining stakeholder cooperation and local community empowerment in conserving and managing Africa's great natural ecosystems, and ultimately in maintaining their vital ecological and human livelihood functions and services. The successful candidate is likely to match the following profile: At least 7 years' practical work experience in conservation and/or natural resources management in developing countries, preferably in Africa; Practical experience in local government and community institutional strengthening and capacity building; Proven abilities and training in facilitating collaboration between diverse stakeholders, and conflict resolution; Practical experience in ecosystem conservation, management and monitoring; Practical field project management, administration and financial skills; Postgraduate training to MSc level or higher; Outstanding communication skills in written and spoken English (language skills in Swahili desirable); Leadership skills, coupled with enthusiasm for working in a small team environment; Private Pilots Licence desirable. Applications should be emailed to jobs@fzs.org to arrive by 4 February 2005.



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Post-M.S./Post B.S. Research Position in Land Use and Global Environmental Change, Madison, Wisconsin, USA. The Center for Sustainability and the Global Environment (SAGE) has a vacancy for a Research Intern position, available to start in April 2005, to assist in efforts to understand the environmental consequences of global land use and land cover change. The position will be ideal for a post-master's or post-bachelor's level student seeking a full-time position. The major focus of this position will be to map the geographic patterns of global agricultural land use and land cover. The work will involve the integration of remotely-sensed land cover data with agricultural census data from around the world, to develop global maps of croplands, pastures, major crops, irrigation, fertilizer application rates, etc. The employee will work with a research scientist and several undergraduate students to design and maintain agricultural census databases; download, manipulate, and analyze global remotely-sensed data, and improve upon the statistical methods developed by SAGE to integrate remotely-sensed data with agricultural census data. Candidates are sought across the broad spectrum of global environmental research disciplines. The successful candidate will have excellent quantitative and analytical skills. Some prior experience working with environmental data, including both spatial data (remote sensing or otherwise) and socio-economic data would be beneficial. In addition, the candidate would ideally have some previous experience in database management, spatial analysis using GIS, as well as some experience with statistical methods. Candidates should have good communication and interpersonal skills. This is a full time position, and the level of appointment will initially be for a year. The position may continue longer based on performance and continued funding. The annual salary will be \$30,000. The position comes with the full health-care benefits associated with Research Intern positions. To apply, submit an application letter, resume, copies of latest transcripts, and arrange for three letters of reference to be sent by email to: Navin Ramankutty, Center for Sustainability and the Global Environment (SAGE), Gaylord Nelson Institute for Environmental Studies, 1710 University Avenue, Madison, WI 53726, USA; Fax: +1-608-265-4113; nramanku@wisc.edu. Please use the following subject line in your email: Research Intern Application. Review of applications will begin on Mar 1 and continue until the position is filled. There are no citizenship restrictions; however, SAGE cannot support resettlement expenses.

Regional Researcher, Southern Africa

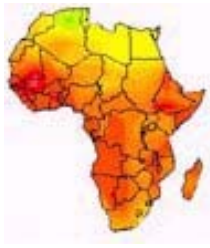
Population Services International (PSI) seeks a regional researcher for Southern Africa likely to be based in Johannesburg, South Africa. The regional researcher would start as soon as possible and be responsible for ten countries (Angola, Mozambique, Botswana, Lesotho, Madagascar, Namibia, South Africa, Swaziland, Zambia, and Zimbabwe), managing and implementing research monitoring and evaluation activities, including study designs, questionnaire development, sampling frames, analysis, and dissemination.

GIS Systems Trainer (Volunteer), Ntungamo District LG, Uganda

The Voluntary Services Overseas (VSO) placement aims to support the Planning Unit and the wider Ntungamo District technical staff in improving the allocation of resources, and ensuring greater transparency in decision-making. The volunteer will act as a technical trainer for all departments in the District, but working under the supervision of the planning unit. Responsibilities include: training staff at the District in using ArcView GIS to display information based on political/ administrative boundaries; linking existing databases directly with ArcView GIS; training staff at the District in the use of GPS to enable accurate mapping of resources and infrastructure within the District. Duration: 2 years. Qualifications: Degree or equivalent with qualifications in GIS and particular knowledge of ArcView software and its various modules; experience in use of this technology and in training other non-technical staff. For more information about opportunities or VSO's recruitment process, visit the website or email enquiry@vso.org.uk. If you would like to be considered for this or any other role with VSO, you can apply online or request a postal application pack. Note that all applications to VSO are considered on the basis of the applicant's suitability for a number of roles in their professional field and the above placement is simply an example of one for which there is an urgent call to fill. Your application may be considered against other roles available in any one of our partner countries across Africa and Asia. Open until filled.

New Center for Remote Sensing and Geographic Information Sciences announces five senior scientist/research professor positions, Brookings (near Sioux Falls), South Dakota, USA

The USGS EROS Data Center, now the National Center for Earth Resources Observation and Science (EROS), and South Dakota State University (SDSU) have jointly established a Center for Excellence in Geographic Information



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Sciences (GIScCE). The GIScCE is funded with five new senior research scientist positions, laboratory support, and direct links with EROS. The research mission of the GIScCE supports the development and applications of remote sensing, the integration of geographic information science capabilities, and simulation modeling to advance the scientific understanding of earth surface processes and the consequences of changing landscapes. The GIScCE serves as a research and academic arm for USGS/EROS. The National Center for Earth Resources Observation and Science and the GIScCE will support operational observations, develop interpretive monitoring systems, and lead to better understanding of the dynamic global landscape processes. In this capacity, the joint EROS and SDSU GIScCE research team will conduct land characterization research and applications from national to global scales. Screening of applications began on February 1, 2005; however, applications received after this date may still be viable.

Other

[Directory of African Women Scientists in Natural Resources Conservation and Management](#)

UNU-INRA launched an online database of more than two thousand African women experts in natural resources conservation and management. Very often African governments and their development partners are unable to identify competent African women consultants and resource people in the field of natural resource conservation and management. For planners and decision makers, there is no ready information to indicate shortcomings in trained manpower at the national, regional or sub-regional levels. To overcome these constraints, the United Nations University Institute for Natural Resources in Africa (UNU-INRA) established an online directory of Professional African Women in natural resources management. UNU-INRA invites all African women professionals in natural resources management and conservation to participate in the development of this database.

[2005 Environmental Sustainability Index: Benchmarking National Environmental Stewardship](#)

The [Environmental Performance Measurement Project](#) aims to shift environmental decision-making to firmer analytic foundations using environmental indicators and statistics. In collaboration with the Center for International Earth Science Information Network (CIESIN) at Columbia University, and the World Economic Forum, the project produces a periodically updated Environmental Sustainability Index (ESI). The ESI is a composite index tracking a diverse set of socioeconomic, environmental, and institutional indicators that characterize and influence environmental sustainability at the national scale. An Environmental Performance Index focusing on assessing key environmental policy outcomes using trend analysis and performance targets is under development.

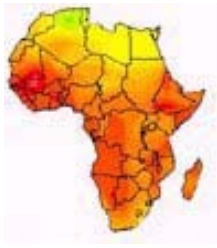
[Southern Africa Millennium Ecosystem Assessment Reports](#)

Assessment reports from the Millennium Assessment sub-global assessment in southern Africa, SAfMA, are available. A nested, multi-scale set of assessments undertaken at regional, basin and local levels, SAfMA was undertaken over the course of 3 years, involving assessment teams and institutions in locations across the region. The assessment was approached as an experiment with studies to be conducted at three spatial scales: the entire SADC region, two major river basins (the Gariep and Zambezi), and local community assessments (Kafue basin in Zambia, Gorongosa-Marromeu in Mozambique, Lesotho, Great Fish River basin, Richtersveld and Gauteng in South Africa). The assessed area included industrial production systems, urban, agricultural, livestock and forestry production areas as well as natural vegetation and conservation systems.

Conferences, Events

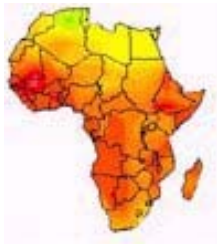
Date	Location	Event
February 2005		
2-5 February	Accra, Ghana	2nd African Regional Preparatory Conference for the World Summit on the Information Society (WSIS) - "Access - Africa's key to an inclusive Information Society"
7-9 February * NEW *	Bamako, Mali	National Strategies for the Development of Statistics (NSDS) Regional Workshop for West African Francophone Countries

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



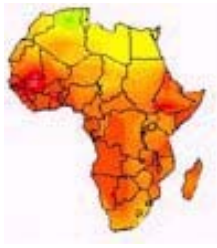
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9-11 February	Toro, Bauchi State, Nigeria	1st International Workshop on Geodesy and Geodynamics and Commissioning of the Centre for Geodesy and Geodynamics Office Complex Directions; Call for Papers
10-12 February * NEW *	Bamako, Mali	National Strategies for the Development of Statistics (NSDS) Regional Workshop for Central African Francophone Countries
11-12 February	Islington, London, U.K.	International Map Trade Association (IMTA) Europe, Africa and the Middle East (EAME) Conference and Trade Show
21-23 February	Paris, France	New Space Services for Maritime Users: The Impact of Satellite Technology on Maritime Legislation
22-24 February	Abuja, Nigeria	4th Africa Internet Summit (Afrinet 2005) - "Sustaining the Growth of ICT Access in Africa". Contact: cpr@ncc.gov.ng or afrinet2k4@ncc.gov.ng
23-25 February	Bonn, Germany	International Conference on Integrated Assessment and Management of Water Resources: A North-South Analysis The main objective of the conference is to analyze the challenges that are encountered in the integrated assessment and management of water resources in large river basins. By bringing together scientists and managers from North and South, it is expected that the present international research efforts concerning water related issues can be translated into practical methods and coherent approaches. The following themes will be addressed explicitly: data, stakeholders, scaling, integration, and policy. Contact: Nick van de Giesen, nick@uni-bonn.de
26 February – 1 March	Cairo, Egypt	1st International Conference Exhibition on Geo-Resources in the Middle East and North Africa The three main themes being considered are Oil and Gas Resources, Water Resources, and Mineral Resources
March 2005		
2-4 March	Johannesburg, South Africa	First Annual Southern African NGO Network (SANGONeT) "ICTs and Civil Society" Conference The conference will focus on ICT challenges facing the Civil Society Organization (CSO) sector, highlighting and promoting practical benefits, opportunities and lessons learned to date. It will provide an opportunity to both CSOs that are ICT-enabled, as well as those organizations which are considering introducing ICT solutions to their work, to discuss critical issues of common concern and learn from one another's experiences. This conference is aimed at leadership staff and technical employees in CSOs, and individuals who work with these organizations, including donor agencies, the private sector and the government. Contact Refilwe Rakhibane at SANGONeT: mtintern@sangonet.org.za
2-4 March	Windhoek, Namibia	Infotech2005 Conference Contact: valiant@iway.na
6-9 March	Denver, CO, USA	Geospatial Information & Technology Association (GITA)'s 2005 Annual Conference and Exhibition . This prestigious event will present an exciting technical program, including one-and-a-half days of in-depth seminars followed by two-and-a-half days of educational sessions. This year's conference theme, Crossing Boundaries, is designed to address the boundless opportunities that geospatial information technology presents to organizations.
6-17 March * NEW *	Alexandria, Egypt	Workshop on Climate Variability over Africa Contact: Azhrif Zakey, zakey@chem.gu.se .
7-9 March	Morogoro, Tanzania	East African Integrated River Basin Management Conference - to bring together river basin professionals and researchers to critically discuss the tools of IWRM applied at the basin level. http://www.iwmi.org.za/RIPARWIN/archive/latest.htm



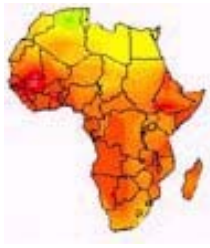
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8-9 March	Nairobi, Kenya	The Second Annual Kenya National ICT Convention
14-16 March	Phoenix, Arizona, USA	Joint Conferences on Urban Remote Sensing – 3rd International Symposium on Remote Sensing and Data Fusion over Urban Areas (URBAN 2005) and 5th International Symposium on Remote Sensing of Urban Areas (URS 2005)
21-23 March	Delft, the Netherlands	First Symposium on Geo-Information for Disaster Management http://www.gdmc.nl/gi4dm
21-23 March * NEW *	Marrakech, Morocco	2nd International Forum on Partnerships for Sustainable Development: Advancing Implementation on Water and Energy Contact: forum@minenv.gov.ma
28-31 March	Minato-ku, Tokyo region, Japan	4th International Symposium on Digital Earth
April 2005		
3-7 April	Yaounde, Cameroon	"Building Civil Society Through Community Development" Conference Organized by International Association for Community Development (IACD); Government of Cameroon. The conference will be highly relevant to all those concerned with the role that community development can play in building or rebuilding the structures and processes of civil society. Contact: Jean Marie Minkoulou, minjm@camnet.cm
4-6 April	Frascati, Italy	OGC Technical and Planning Committee Meetings - http://www.opengeospatial.org/events/?page=events
13-14 April	Tunis, Tunisia	Séminaire Maghrébin sur l'Analyse de l'Information Statistique pour le Développement (see http://www.paris21.org/pages/events/all-events/list/)
13-15 April * NEW *	Mbabane, Swaziland	2nd Southern African Internet Forum (SAIF 2) Contact: sean@aitcafrica.com
14-16 April * NEW *	Durban, South Africa	International Conference on HIV/AIDS, Food and Nutrition Security To stimulate more effective, large-scale action that addresses the links between HIV/AIDS and food and nutrition insecurity. Contact: Stuart Gillespie, IFPRI.s.gillespie@cgiar.org
16-21 April	Cairo, Egypt	FIG Working Week & 8th International Conference on Global Spatial Data Infrastructure
17 & 21 April	Cairo, Egypt	12th International Steering Committee for Global Mapping Meeting
23-28 April	Addis Ababa, Ethiopia	CODI IV - "Information as an Economic Resource" Sub themes include e-Commerce, Open Source Software, Poverty Reduction, Intellectual Property Rights, Statistics and NEPAD, Systems of National Accounting, Knowledge Sharing, Information Access and Information Dissemination.
26-28 April	San Francisco, CA, USA	GeoSpatial World 2005
28-29 April	Zanzibar, Tanzania	AfRES 6th International Conference - Real Estate and Globalisation in Africa. Conference of the African Grouping of Real Estate Societies. Contact: Organizing Committee tivea@uclas.ac.tz ; Deadline for papers: <u>11 January 2005</u> .
May 2005		
10-11 May * NEW *	Maputo, Mozambique	3rd International Workshop on Open Access 2005 The goal of the workshop is to disseminate and discuss the concept of Open Communication and Open Networks, i.e. networks with modular network segments with open standardised interfaces allowing different actors to build networks together based on local economical opportunities.



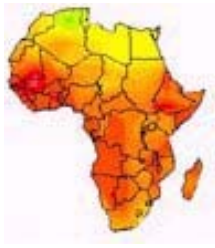
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22-26 May	Alger, Algeria	Séminaire International Nations Unies/Algérie/Agence Spatiale Européenne sur l'utilisation de la technologie spatiale pour la gestion des catastrophes : Prévention et gestion des catastrophes naturelles / United Nations - Algeria - European Space Agency Seminar on the Use of Space Technology for Disaster Management: Prevention and Management of Natural Disasters Contact: Mme Raechelle Newman, Bureau des Affaires Spatiales des Nations Unies (BAS): raechelle.newman@unvienna.org .
24-27 May	Sesimbra, Portugal	ISESS 2005 (International Symposium on Environmental Software Systems) ISESS 2005 is the latest in a series of conferences and workshops that, since 1995, have provided a forum for presenting and discussing effective information processing techniques for environmental prediction and monitoring.
30 May – 2 June	Estoril, Portugal	GIS Planet 2005 Contact: planet@gisplanet.org
June 2005		
6-8 June	Porto, Portugal	25th EARSeL Symposium - Global Developments in Environmental Earth Observation from Space Followed by workshops on Remote Sensing of the Coastal Zone and 3D Remote Sensing
6-10 June	Stockholm, Sweden	ISO/TC 211 20th Plenary Contact: Jörgen Wyke, Swedish Standards Institute, jorgen.wyke@sis.se
16-18 June * NEW *	Zaragoza, Spain	5th International Workshop on Remote Sensing and GIS Applications to Forest Fire Management: Fire Effects Assessment
20-24 June * NEW *	Angers, France	Colloque - Evaluation Environnementale et Developpement d'une Agriculture Durable
20-24 June	St. Petersburg, Russia	31st International Symposium on Remote Sensing of Environment "Global Monitoring for Sustainability and Security"
July 2005		
3-6 July	Southampton, UK	Cambridge Conference: The Exchange – to be held at Ordnance Survey's head office in Southampton, UK. With a greater emphasis on networking and round-table discussions, CC:The Exchange is designed to strengthen relationships between national mapping organization senior representatives and to complement the 2007 Cambridge Conference. Contact: nmonetwork@ordnancesurvey.co.uk
6-8 July * NEW *	Mauritius	AITEC Indian Ocean - Mobilising ICTs for Development and Competitiveness in Mauritius, Madagascar, Reunion & Seychelles
9-16 July	La Coruña, España	XXII ICA International Cartographic Conference . Call for abstracts . Abstracts due 1 November 2004. A limited number of travel awards will be made to young cartographers who are nationals from developing countries.
18-22 July * NEW *	Vancouver, Canada	GML Days 2005 - will be the fourth annual conference on the OGC Geography Mark-up Language (GML) and Web Services for GIS. Abstracts due: April 30, 2005.
18-23 July	Tours, France	International Union for the Scientific Study of Population - XXV International Population Conference
19-23 July	Elmina, Ghana	1st Regional Biannual Conference of Africa Chapter of International Association of Landscape Ecology (Africa-IALE) Changing Landscapes of Africa: A Common Approach to Diverse Challenges (Paysages Changeants de l'Afrique: Une Approche Commune aux Défis Divers). Contact: hbulley@calmit.unl.edu ; http://calmit.unl.edu/africa-iale/cd/ ; http://calmit.unl.edu/africa-iale/index.html ; Africa-iale mailing list
24-29 July	San Diego, CA, USA	ESRI International User Conference



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August 2005		
22-26 August * NEW *	Copenhagen, Denmark	2nd International Workshop on Geographic Information Management (GIM '05) in conjunction with DEXA 2005 and EGOV 2005. Submission of full papers: March 04, 2005.
24-26 August * NEW *	Cape Town, South Africa	2nd Annual Conference of the Community Informatics Research Network Deadline for abstracts and panel proposals: 1 February 2005.
29 August – 2 September	Sandton, Joburg, South Africa	AFRICAGIS '05 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: 15 February 2005.
September 2005		
6-8 September	Bologna, Italy	River Basin Management 2005 River Basin Management 2005 is 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.
6-9 September * NEW *	Johannesburg, South Africa	ACT 2005 – Seventh Annual African Computing & Telecommunications Summit Presentation proposals deadline: 30 June 2005.
7-9 September	Brno, Czech Republic	EnvirolInfo 2005 - Informatics for Environmental Protection - Networking Environmental Information Deadline for abstracts: February 1, 2005.
7-9 September * NEW *	Trier, Germany	1st International Conference on Remote Sensing and Geoinformation Processing in Assessment and Monitoring of Land Degradation and Desertification
7-10 September * NEW *	Nairobi, Kenya	Mapping for Change: International Conference on Participatory Spatial Information Management and Communication Contact: Giacomo Rambaldi, grambaldi@iapad.org .
12-14 September	Bologna, Italy	2nd International Conference on Sustainable Planning and Development (Sustainable Planning 2005) The papers presented at Sustainable Planning 2005 will be published in volume 83 of <i>WIT Transactions on Ecology & the Environment</i>
13-15 September * NEW *	Tanta, Egypt	Water, Health and Environment 2005 Contact: Dr Bakenaz A. Zeydan, Conference General Secretary, Head of Water Engineering Department, Faculty of Engineering, Tanta University, bakenaz@dec1.tanta.edu.eg
15-16 September * NEW *	Montreal, Canada	ISO/TC 211 21st Plenary http://www.isotc211.org/
25-27 September	Magdeburg, Germany	Second International ICSC Symposium on Information Technologies in Environmental Engineering (ITEE'2005) The deadline for submission of papers is: February 28, 2005.
October 2005		
8-12 October * NEW *	Kansas City, Missouri, USA	Urban and Regional Information Systems Association (URISA)'s 43rd Annual Conference Abstract deadline extended to: February 11, 2005
9-13 October	Bonn, Germany	6th Open Meeting of the Human Dimensions of Global Environmental Change Research Community
23-27 October * NEW *	Sioux Falls, South Dakota, USA	Pecora 16 - "Global Priorities in Land Remote Sensing" Deadline for abstracts: February 15, 2005.
25-29 October	Kusadasi, Turkey	MEDCOAST 2005 – 7th International Conference on the Mediterranean Coastal Environment Deadline for abstracts: January 31, 2005.
November 2005		



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14-16 November * NEW *	Tunis, Tunisia	IRFD World Forum on Information Society . Organized by the the International Research Foundation for Development. One of the Session Themes is Geographical Information System and Sustainable Information Society. Abstract deadline: March 31, 2005. Contact: wfis2005@irfd.org .
16-18 November	Tunis, Tunisia	World Summit on the Information Society – 2 nd phase
December 2005		
16-21 December	Cairo, Egypt	13th International Conference of the Geological Society of Africa on Geology and Development . Local lead organisation, the Egyptian National Authority for Remote Sensing and Space Sciences (NARSS). Contact: Dr Mahmoud Abdeen, GSAf Vice-President (North Africa), m_m_abdeen@hotmail.com
2006		
16-22 March 2006	Mexico	4th World Water Forum 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 concept paper .
25-26 May 2006 * NEW *	Orlando, Florida, USA	ISO/TC 211 22nd Plenary http://www.isotc211.org/
9-15 July 2006	Philadelphia, PA, USA	IUSS 18th World Congress of Soil Science
13-17 July 2006	Wollongong and Sydney, Australia	COAST - GIS 06 - 7th International Symposium on GIS and Computer Cartography for Coastal Zone Management . 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 International Geographical Union's Commission on Coastal Systems
31 July – 4 August 2006 * NEW *	Denver, Colorado, USA	IEEE/IGARSS 2006
9-13 October 2006	Santiago, Chile	9th International Conference on Global Spatial Data Infrastructure organized by the GSDI Association & Instituto Geográfico Militar Contact: gsdi9@igm.cl
October 2006 * NEW *	Cairo, Egypt	6th African Association of Remote Sensing of the Environment (AARSE) Conference . Contact: aarse@rcmrd.org .
October 2006 * NEW *	Beijing, China	20th CODATA (Committee on Data for Science and Technology) Conference Contact: codata@dial.oleane.com .
14-15 November 2006 * NEW *	Riyadh, Saudi Arabia	ISO/TC 211 23rd Plenary http://www.isotc211.org/

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Global Spatial Data Infrastructure Association
<http://www.gsdi.org>

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