

# Spatial Data Infrastructure – Africa Newsletter

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SDI-Africa Newsletter

October 2005

Vol. 4, No. 10

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

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

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

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

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

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

## Message from the Editor

Dear colleagues, the website for the [9<sup>th</sup> International Conference on Global Spatial Data Infrastructure \(GSDI-9\) has been launched](#). The conference is being held in Santiago, Chile, November 3-11, 2006. The theme of GSDI-9 is "Spatial Information: Tool for Reducing Poverty." This year, the [call for papers](#) seeks materials for both the conference and a refereed book. High-quality submissions will be accepted for presentation at the conference and will be published in book form as a refereed conference document tentatively titled *Research and Theory in Advancing Spatial Data Infrastructure Concepts*. The deadline for submission of full articles to be peer reviewed is March 15, 2006. If you are not interested in the referee process, the deadline for submission of abstracts is May 2, 2006. Regards, Kate

## Input to this Issue

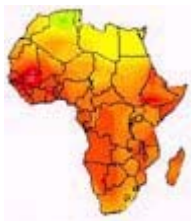
Thank you to Dozie Ezigbalike and Daniel Berhanu, U.N. Economic Commission for Africa (Ethiopia); Sonja Vorster, EIS-AFRICA (South Africa); Oh-Sung Kwon, GSDI SDI-AP Newsletter (USA/Korea); Glenn Hyman, CIAT (Colombia); Sallie White, Ordnance Survey (U.K.); and Robert Zomer, International Water Management Institute (IWMI) (Sri Lanka) for their contributions to this issue of the newsletter.

## SDI News, Links, Papers, Presentations

### [SDI Africa: An Implementation Guide now is available in French](#)

The French translation of the main chapters and key reference material was made possible through a fund from ECA. The translation is a work-in-progress and comments and corrections are most welcome at [ecageoinfo@uneca.org](mailto:ecageoinfo@uneca.org). The Guide is meant to be a living document, so new input, suggestions, and examples, also are encouraged. The handbook has been compiled as a cooperative effort of the Economic Commission for Africa (ECA), the Global Spatial Data Infrastructure Association (GSDI) and EIS-Africa, with the collaboration of the International Institute for Geoinformation Science and Earth Observation (ITC). The objective of compiling this handbook is to assist African countries to improve the management of their geo-spatial data resources in a way that effectively supports decision-making by governments and ensures the participation of the entire society in the process.

[SDI Africa: Un Guide de Mise En Oeuvre Preamble maintenant est disponible en français](#). Le guide est une compilation résultant d'un effort de coopération entre la Commission économique pour l'Afrique (CEA), l'Association "Global Spatial Data Infrastructure (GSDI)" et SIE-Afrique, avec la collaboration de l'Institut International des Sciences de l'Information Géographique et de l'Observation de la Terre (ITC).



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L'objectif de cette compilation est d'aider les pays africains à améliorer la gestion de leurs ressources de données géospatiales de manière à fournir aux gouvernements un appui effectif à la prise de décision et à assurer une participation de la société entière au processus.

Are you reading the SDI-Africa newsletter without having subscribed to the GSDI News List? GSDI would be grateful if you would [sign up](#) to the List with your institutional affiliation and country. There is no charge for signing up. And this way, GSDI can better identify its African and global network. Thank you.

### [Call for expressions of interest in hosting AFRICAGIS 2007 conference and exhibition](#)

Countries interested in hosting AFRICAGIS '07 (or the AFRICAGIS conference thereafter, i.e. AFRICAGIS '09) are requested to provide a brief statement (1-2 pages) of their interest, in writing, to the EIS-AFRICA secretariat. This proposal should identify the lead organisation within the country, which will serve as a contact point with the International Organising Committee (IOC), and indicate the way in which relevant interest groups in the country will be involved in the organisation, meeting and exhibition. Broad ideas on the conference theme, the conference programme and suitable facilities suitable for the conference i.e. conference venues, hotels etc should be included. Providing evidence of the ability to organise a successful international meeting would obviously be advantageous to the bid, as would the potential to raise local funding towards the meeting. Deadline: 14 October 2005.

### [Appel d'Offres : Organisation de la Conférence et de l'Exposition SIG AFRIQUE 2007](#)

Les pays désireux d'organiser SIG AFRIQUE 2007 (ou SIG AFRIQUE 2009) sont priés d'envoyer une déclaration d'intention d'une à deux pages au secrétariat de SIE AFRIQUE. La déclaration devra identifier l'organisation principale implantée au pays en question qui servira comme point de contact avec le Comité international organisateur (CIO), et indiquer de quelle manière les différents groupements d'intérêt du pays seront impliqués dans l'organisation comme dans la tenue de la conférence et de l'exposition. Nous vous prions d'inclure vos idées générales sur le thème de la conférence, le programme, les lieux susceptibles d'accueillir la conférence (par exemple : centres de conférences, hôtels, etc.). Naturellement, les candidatures mettant en évidence une capacité d'assurer la réussite d'une rencontre internationale, ou encore de procurer au niveau local les fonds nécessaires à la préparation de l'événement seront favorisées. Date limite: 14 October 2005.

### [Overview of workshops that will be held at AfricaGIS 2005](#)

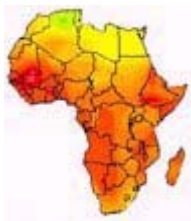
- From Spatial Data Infrastructure to Service and application (ISPRS)
- GEOSS Workshop, October 30, 2005, Pretoria, South Africa. Following a successful workshop in July 2005 for the Global Earth Observing System of Systems, OGC is making plans to support the next GEOSS workshop to be held in conjunction with AfricaGIS. The Group on Earth Observations (GEO) work plan anticipates these workshops to "evaluate the proposed GEOSS architecture concept using test cases from two or three societal benefit areas." [OGC demonstrations at the GEOSS workshops](#) show that the geospatial community's implementation of OGC specifications provides a broad based capability to implement GEOSS. If you are interested in participating in the GEOSS Workshop at AfricaGIS, contact George Percivall, [percivall@opengeospatial.org](mailto:percivall@opengeospatial.org).
- Special Session on Landsat: Evaluation of the Distribution and Use of Landsat Data in Africa. Invited Speakers include: Fernando Echavarria, US Department of State; R.J. Thomson, USGS; Johannes Akiyumi, UNEP; Blessing Siwela, RRSU/SADC; Erik Khamala, RCMRD; David Stevens, UN-OOSA.

### [Cartographie du Sénégal : Le numérique pour la réactualisation \(mars 2005\)](#)

Le Sénégal travaille depuis une année sur la réactualisation de sa cartographie dans une démarche qui va s'étendre sur trois années, avec en plus un volet équipement et formation. L'objectif étant, pour les divers acteurs impliqués dans ce projet, de réaliser une cartographie numérique, à jour et homogène du Sénégal. Sept agents de la [Direction des Travaux Géographiques et Cartographiques \(DTGC\)](#) seront formés dans les différents domaines de la cartographie numérique.

### [Sweden grants Kenyan government Sh485m for land reforms](#)

Kenya received Sh485 million grants from the Swedish Government towards land reform programmes. The money is part of the Sh3 billion the Swedish Government has pledged to support the Government's national land policy. The money will also go towards the formulation of the national land information system and capacity building, with emphasis given to land information in informal settlements. The entire programme will



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cost around Sh1.062 billion with the Government financing the balance. [Source: [allafrica.com](#) - The East African Standard (Nairobi), September 13, 2005]

### [Geo-Information Said Vital for Agricultural Research, Productivity \(Ethiopia\)](#)

The effective utilization of up to date geographic information would contribute significantly to enhancing agricultural research and productivity, the National Meteorological Services Agency said. Speaking at the opening of a geo-information processing training yesterday, Deputy Manager of the Agency, Kidane Assefa said the availability and use of up to date geo-information would greatly support the country's efforts to ensure food security. He said the training would enable agricultural researchers and experts in the Agency to familiarize themselves with the ever-changing global geographic information processing, he said, adding that it would also help them to utilize it for research purposes and make it readily available for the beneficiaries. The training, which was aimed at building the capacity of relevant actors in the field, was organized in association with Centre for Development and Environment, a Netherlands-based institution. Representative of the Centre and coordinator of the training, Mr. Thomas Gartner said the training was part of the Dutch Government's capacity building for sustainable development programme being implemented in developing countries of Eastern and Southern Africa. Apart from the short-term capacity building training, the Centre has been providing Ph.D. level scholarship to university professionals in Ethiopia, Kenya, Tanzania and Eritrea. Some 20 professionals drawn from the Ministry of Agriculture, Ethiopian Agricultural Research Organization and the Agency are in attendance at the six-day training. [Source: [allafrica.com](#), The Ethiopian Herald (Addis Ababa) September 16, 2005]

### [Les Travaux Publics \(de l'Angola\) doté d'un système d'information géographique](#)

Le Ministère des Travaux Publics est doté d'un système national d'information géographique, afin de contribuer à la prévention des calamités, gestion d'utilisation des sols, de l'environnement et pour le plan urbain, apprend l'Angop de source officielle. La dernière édition de la revue "Construction et Développement" affectée à ce Ministère indique que le système, à travers le Bureau de l'Information Géographique (GIC), disposera des informations géographiques aux intéressés, de l'élaboration et de la mise en oeuvre du plan d'entretien, ainsi que de développement d'une banque de données. L'élaboration de plans d'exécution référant à l'utilisation des systèmes d'information géographique, soutenir les gouvernorats provinciaux dans le recueil et structuration d'une base de données informatisées, ainsi que la disponibilité de l'information géographique, font également partie de tâches du Bureau. La revue souligne le Bureau a déjà des données digitales sur la carte topographique de quelques régions du pays, des mappes, photographies aériennes et des images par satellites. Pour exécuter ses actions, le Bureau comptera sur le concours des Départements du Plan et Coordination géographique, d'exploitation et de recherche géographique, outre le secrétariat comme structure d'appui. [Source: [allafrica.com](#), Angola Press Agency (Luanda), 16 Août 2005]

- L'Angola se mobilise contre le surpeuplement du littoral -- Le ministre de l'Urbanisme et de l'Environnement a informé qu'une équipe de consultants des Nations unies spécialisée en systèmes d'information géographique, est attendue le semaine du 22 août 2005 à Luanda pour travailler avec des experts angolais [Source: [l'intelligent.com](#)]

### [2ème Conférence Nationale du Projet d'Aménagement Environnemental du Lac Victoria](#)

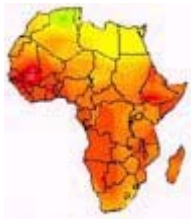
17-19 octobre 2005, Kisumu, Kenya - Organisateur : Projet de gestion de l'environnement du lac Victoria (LVEMP). Contact: [coordinator@lvemp.or.ke](mailto:coordinator@lvemp.or.ke)

La conférence offrira une vision scientifique élargie en matière de gestion de l'environnement et certaines réunions seront consacrées à des questions qui préoccupent plus particulièrement les acteurs impliqués dans la gestion de l'écosystème du lac Victoria. Les points suivants seront notamment abordés :

- gestion de l'occupation des sols : préservation intégrée des sols et des ressources en eau, gestion de la charge polluante, gestion des zones humides
- gestion de l'écosystème du lac Victoria : contrôle de la qualité, aquaculture, eutrophisation, conditions hydrauliques, sédimentation et caractéristiques des sédiments
- participation de la communauté : microprojets, questions d'ordre socio économique, formation et renforcement des capacités, mobilisation de la communauté.

[2nd National Lake Victoria Environmental Management Project \(LVEMP\) Conference](#), 17-19 October 2005, Kisumu, Kenya - Organizers: Lake Victoria Environmental Management Project (LVEMP-K)

The conference will provide a broad scientific view of environmental management and will also include sessions on issues of particular interest to stakeholders involved in managing the Lake Victoria ecosystem.



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Some of the issues to be discussed are the following:

- land use management: integrated soil and water conservation, pollution loading management, wetlands management
- Lake Victoria ecosystem management: quality assurance control, aquaculture, eutrophication, hydraulic conditions, sedimentation and sediment characteristics
- community participation: microprojects, socioeconomics, training and capacity building, community mobilization.

This conference will serve as an introduction to the upcoming [11th World Lakes Conference](#), whose theme is “Management of Lake Basins for their Sustainable Use: Global Experiences and African Issues” scheduled for 31 October – 4 November 2005. Contact: [coordinator@lvemp.or.ke](mailto:coordinator@lvemp.or.ke)

### [The State of Food and Agricultural Statistical Systems in Africa - Survey 2005](#)

The Food and Agriculture Organization of the United Nations (FAO) is a provider of global assessments and analyses of the current food and agricultural situation to the world community. To respond to the increasing and more diversified demand for information, FAO continues to collect, process and disseminate timely and relevant information and basic data series on food and agriculture. The present questionnaire aims at collecting information on national food and agricultural statistical systems to supporting member countries' efforts to improve quality and coverage of basic data, as well as providing users of these data with the relevant metadata on the systems that produced them. The report, to be prepared on the basis of the questionnaire, will highlight areas of strengths and weaknesses in national systems, which could be useful in designing cooperation programmes (between countries or with international agencies) and constitute an advocacy tool for national statistical offices.

### [L'Etat des Systèmes de Statistiques Alimentaires et Agricoles en Afrique - Enquête 2005](#)

L'Organisation des Nations Unies pour l'Alimentation et l'Agriculture (FAO) fournit pour la communauté internationale des évaluations et des analyses globales sur l'état de l'alimentation et de l'agriculture. Pour répondre à la demande toujours croissante et diversifiée d'information, la FAO continue à rassembler, traiter et disséminer des informations pertinentes et à jour, ainsi que des séries de données de base sur l'alimentation et l'agriculture. Le présent questionnaire vise à rassembler des informations sur les systèmes statistiques alimentaires et agricoles dans chaque pays africain. à soutenir les efforts des pays membres dans l'amélioration de la qualité et le champ des données de base, mais aussi à fournir aux utilisateurs de ces données les metadata appropriées sur les systèmes qui les ont produites. Le rapport qui sera préparé sur la base des questionnaires complétés soulignera les atouts et les faiblesses des systèmes nationaux, ce qui pourrait faciliter la conception des programmes de coopération (entre les pays ou avec les agences internationales) et constituer un outil de plaidoyer pour les responsables des systèmes nationaux.

[Resolutions from the 21st ISO/TC 211 plenary meeting in Montréal](#), Canada, September 15-16, 2005

[Résolutions de la 21e réunion plénière de l'ISO/TC 211 à Montréal](#), Canada, 15-16 septembre 2005

The next [ISO TC211](#) meeting will be held May 25-26, 2006 in Orlando, Florida, USA.

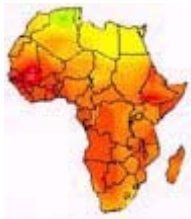
### [Global Map Version 1.2 Specifications](#) (revised at 12th ISCGM meeting Cairo, 17 April 2005)

The main objective of this global project is to bring all nations and concerned organisations together to develop and provide easy and open access to global digital geographic information at a scale of 1:1 million. This would be used to facilitate the implementation of global agreements and conventions for environmental protection, for monitoring of major environmental phenomena and to encourage economic growth within the context of sustainable development. As part of this objective, a Global Map product will be developed to this specification. The Global Map will also contribute to the development of a Global Spatial Data Infrastructure.

-- news from the U.S.

### [URISA Presents First Draft Street Address Data Standard](#)

[September 7, 2005] The Urban and Regional Information Systems Association (URISA) presented the first draft of a newly created Street Address Data Standard for first review and comment by the geospatial community. The draft standard is available on the URISA website. This is the first opportunity for members of the GIS Community to view the Federal Geographic Data Committee-approved effort to create a street address data standard. The standard consists of four parts: content, classification, quality, and transfer. URISA submitted a formal proposal to the Federal Geographic Data Committee (FGDC). The standard is intended to provide a statement of best practices for defining street address data content and classes,



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setting standards and tests of street address data quality, and facilitating exchange of street address data files.

## [FGDC Collaborating in the Development of a Geospatial Profile for Enterprise Architecture](#)

The [Federal Geographic Data Committee \(FGDC\)](#), in partnership with the Architecture and Infrastructure Committee (AIC) of the Federal CIO (Chief Information Officers) Council is developing a Geospatial Profile guidance document for the incorporation of common geospatial capabilities in the business processes of government as developed through agency Enterprise Architectures. A Community of Practice, also convened as an FGDC Working Group, is developing the Profile document along with ancillary best practices for implementation for public review in early Fall 2005. An [interactive site](#) has been created to store all documentation for this initiative, and is available for public engagement. For more information, see: <http://www.fgdc.gov/nsdi/ea.html>

## [Register for a free pass to Geospatial Information & Technology Association \(GITA\) Online Convention and Exposition](#)

GITA will host its first-ever online convention and exposition, beginning Oct. 1 through Dec. 31, 2005. Attendees will gather virtually to attend sessions presented by seven featured speakers. Participants can also visit the convention's exposition, where they can review information from companies who supply GITA members with software, hardware, and services. The virtual convention and exposition is free of charge.

## [Presentations from ICC2005 -International Cartographic Conference](#)

One of the sessions focused on spatial data infrastructure. Among [the presentations](#) were:

China: [Establishing the environment for sharing geographic information in China](#)

Colombia: [Production of digital cartography as a support to the national census. A geostatistical strategy to build the Colombian spatial data infrastructure.](#)

Cuba: [The Cuban spatial data infrastructure as the backbone of the national geospatial portal](#)

Nigeria: [The need for collaboration in mapping in Nigeria: an example of city map update](#)

Spain: [IDEE: The national spatial data infrastructure of Spain](#)

Germany: [Geospatial services in northern Germany - all in one](#)

Austria: [Geo-Data Policy in Austria](#)

## [CC:The Exchange](#), July 3-6, 2005, Southampton, U.K.

Leading mapmakers from more than 40 countries gathered at the beginning of July for the inaugural meeting of CC: The Exchange, part of the continuing Cambridge Conference series. [Presentations and notes taken at the Conference](#) are available online at the [NMOnetwork](#) (National Mapping Organisations Network) website. See post event summary as well: [World's mapping experts look to the future at CC: The Exchange.](#)

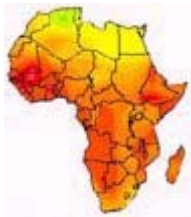
## [Islamic Development Bank Guidelines for a National IT Strategy](#)

The study, sponsored by the Islamic Development Bank, identifies areas of weaknesses, improvements, responsibilities, directions as well as implementation issues faced by its members to effectively utilize IT in the new economy. The study provides a framework within which the member countries can evolve and implement their national strategies for information technology and put this new resource in the service of economic development. The study also highlights different challenges and opportunities such as social, cultural, political and economic changes, and analysis on IT development in selected countries. Further, it deals with elements and critical success factors in the development of a successful IT Strategy in terms of policies and regulatory framework, content and community as well as IT infrastructure, human resources development, and national innovation clusters.

## GIS Tools, Software, Data

### **A 1:10,000,000 Geological Map of Africa**

The 20<sup>th</sup> Colloquium of African Geology, co-organized by the BRGM, CNRS and Cogema, was held in Orleans, France, June 2004. At the Congress, the BRGM premiered the 1:10,000,000 geological map of Africa. The map lists the different geological formations and summarizes metallic deposits. It was designed in a GIS with input from 5,000 maps of different scales (geology, mineral resources, and water resources). The geological map of Africa lists 40,000 mineral occurrences and deposits located on the continent. The map draws attention to the breakdown and location of the deposits and the link between the breakdown and the



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geological phenomena that determine deposit formation. With this cartographic tool, the mining potential of the different regions of Africa can be classified in order of importance, and research and studies can be steered to little-known regions. Contact: Danièle Roblin, BRGM, [d.roblin@brgm.fr](mailto:d.roblin@brgm.fr).

### [GIS Data of Angola](#)

The Angolan Demining Unit (Instituto Nacional de Remocao de Obstaculos e Engenhos Explosivos - INAROOE) and UNDP-CNIDAH (National Inter-Sectoral Commission for Demining and Humanitarian Assistance) have contributed to SAHIMS GIS Datasources. The datasets include roads, rivers, communes, provinces, etc., and are available for download from SAHIMS.NET. Country data contacts: [pribeiro@cnidah.gv.ae](mailto:pribeiro@cnidah.gv.ae), [mjose@cnidah.gv.ae](mailto:mjose@cnidah.gv.ae).

### [SAGA GIS \(System for Automated Geoscientific Analyses\)](#)

A modular, open-source GIS application emphasizing grid and raster functions such as image classification and terrain analysis. It is written in C++ programming language, follows an object oriented approach, and relies on the [GNU Public License](#). The SAGA 2.0 beta source code was made available online in June 2005.

### [VAM Spatial Information Environment \(SIE\)](#)

The VAM Spatial Information Environment (SIE) is a VAM-led initiative to provide the WFP spatial data user community with a better ability to analyse and represent spatial information. SIE efforts underway include a standardisation of cartographic representation, and a collaborative effort to increase access to original and derived spatial information within WFP and with information partners.



#### **Niger Operational Map**

shows roads, settlements, humanitarian road corridors for the Niger operations.

#### **Mozambique: Operational Planning Map**

portrays Mozambique and neighbouring Countries with populated places, ports, airports, roads, railroads, administrative boundaries, population densities as well as WFP offices and flood prone areas.



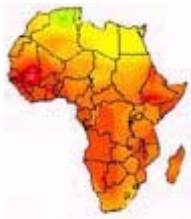
### [Find Interactive Maps, GIS datasets, Satellite Imagery and Related Applications](#)

You can find interactive maps by searching in GeoNetwork for digital data with an Interactive Map, or directly connect to a pre-configured map server. Supported Map Servers are OpenGIS® Consortium compliant WMS Map Servers and ESRI® ArcIMS Map Servers.

### [Version 2 of the SRTM Digital Elevation Database is now online](#)

The [CGIAR-CSI](#) announced that Version 2 of the SRTM Digital Elevation Database is now online. Thanks go to Andrew Jarvis and his colleagues, for continuing to improve and update the DEM's. Version 2 now includes all areas of the world, including Australasia and small islands in the Atlantic, Indian and Pacific Oceans that were not previously available. The dataset also is interpolated using improved interpolation methods and has been clipped around shorelines. In addition, Version 2 has no 'cliffs' on tile joins, brought about by insufficient overlap in interpolation in Version 1.

The CGIAR-CSI has been very pleased with the popularity of the SRTM database, and the significant demand for these products. These data are now the single most downloaded dataset (in terms of bandwidth and gigabytes) in the CGIAR system, with approx. 500 to 700GB worth of digital elevation data being downloaded per month. It is hopes that these data are useful to those involved with sustainable development and conservation efforts in developing countries, as well as all the others for whom this data is essential. It is the intention of the CGIAR-CSI to improve and add to this data, and to provide as much useful data as possible, easily accessible, and easy to use. Your feedback and support is much appreciated.



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## **GRASS 6.0.1 released 22 August 2005**

[Geographic Resources Analysis Support System \(GRASS\)](#), commonly referred to as GRASS GIS, is a Geographical Information System (GIS) used for data management, image processing, graphics production, spatial modeling, and visualization of raster, vector and sites data. It is open source Free Software released under the [GNU General Public License \(GPL\)](#). The new features of GRASS 6 cover a new topological 2D/3D vector engine and support for vector network analysis. Attributes are now managed in an SQL-based DBMS. A new display manager has been implemented. The NVIZ visualization tool was enhanced to display 3D vector data and voxel volumes. Messages are partially translated (i18N) with support for FreeType fonts, including multibyte Asian characters. New LOCATIONS can be auto-generated by EPSG code number. GRASS is integrated with GDAL/OGR libraries to support an extensive range of raster and vector formats, including OGC-conformal Simple Features.

## **Geospatial Research, Applications, Reference Material**

### **Spatial data infrastructure: an imperative in the management of the resources of the Niger Delta**

Presented at the Fifth International Symposium on GIS and Computer Cartography for Coastal Zone Management (CoastGIS), 16-18 October 2003, Genova, Italy.

### **Participatory GIS - ICT Update, Issue 27, September 2005**

The newsletter issue is dedicated to Participatory GIS. It was released in anticipation of the Mapping for Change Conference that took place in Nairobi, 7-10 Sept. 2005. It features a number of cases illustrating the issues that were discussed at the international conference. Interest in the spatial dimension of data has increased since the 1990s due to the diffusion of modern geographic information technologies and systems (GIT&S). These technologies include geographic information systems (GIS), low-cost global positioning system (GPS) equipment and satellite imagery. Increasing numbers of community based initiatives are emerging that aim to record, organize, visualize and geo-reference indigenous spatial knowledge using what is generally termed participatory GIS (PGIS). Articles include: [PGIS mapping procedure developed in Namibia](#); [How the Ugunja Community Resource Centre in Kenya has overcome the lack of technical and human resources in the process of building a local GIS and mapping hub](#); [Lessons learned by a community in Cameroon in the process of using PGIS to apply for a community forest management contract](#)

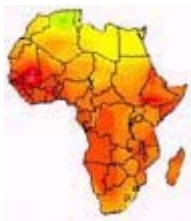
### **Analyzing environmental trends using satellite data: selected cases**

#### **Involving geospatial information in the analysis of land-cover change along the Tanzanian coast**

This article provides comprehensive scientific data on land-use and land-cover change in the coastal zone of Tanzania over the 1990 and 2000 time periods. The research was part of an African region initiative to demonstrate the practical application of geographic information for sustainable development. Remotely sensed images from close to 1990 Landsat Thematic Mapper (TM) sensor and 2000 Landsat-7 Enhanced Thematic Mapper Plus (ETM+) sensor and geographic information system (GIS) technologies are applied to discern changes in land cover and land use along the mainland Tanzania coast. Change detection results show that urban land area has increased dramatically. Mangrove forest area declined modestly, but field verification shows severe deterioration of their conditions near urban areas. While the area of dense woodland decreased, the area of open woodland and the area of woodland interspersed with agriculture increased. This study demonstrates how geospatial information science and technologies provide critical information and tools for coastal resource managers who work at the crossroads of resource use, land-cover change, poverty alleviation, and environmental management. Coastal Management, Volume 33, Number 1, 1 January 2005, pp. 87-99(13).

#### **Mapping Poverty & Conservation Linkages**

Materials are available online from a workshop held at the IUCN World Congress in November 2004 entitled "Mapping Poverty & Conservation Linkages: Using Decision-Support-System Tools to Help Implement the MDGs". The materials illustrate the poverty-environment mapping efforts of several contributing organizations in order to enhance and improve knowledge of the methodologies and indicators being employed. Presentations included: [Mapping Ecosystem Services and Poverty in Kenya](#) (6 MB) and [Poverty Environment Mapping in Rwanda](#) (3 MB)



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### [Scientists map the world for nature conservation](#)

For years, experts have been calling for an improved database that would enable them to develop more effective global nature conservation strategies. Botanists at the University of Bonn have now taken a major step in this direction with the publication, in the Journal of Biogeography, of a world map of plant biodiversity. The atlas is arranged in 867 zones, known as ecoregions. "This makes the data on the world's plant diversity accessible in accordance with a common geographical standard," explains Gerold Kier, head of the project at Bonn University's Nees Institute for Plant Biodiversity. This work, says Kier, represents a significant advance because the results are needed both for nature conservation planners and those engaged in basic research. For further information, see Kier et al. (2005) Global patterns of plant diversity and floristic knowledge. Journal of Biogeography. Vol. 32, Issue 6, Page 921-1106. Contact Gerold Kier, [kier@uni-bonn.de](mailto:kier@uni-bonn.de).

### [Pilot Analysis of Global Ecosystems \(PAGE\): Agroecosystems Dataset](#)

The PAGE dataset was prepared by IFPRI in collaboration with the World Resources Institute (WRI). The study identifies linkages between crop production systems and environmental services that might lead to policies that can contribute both to improved food output and improved ecosystem service provision. The dataset includes a series of 24 maps that provide a detailed spatial perspective on agroecosystems and agroecosystem services. It offers 9 geospatial datasets used to build these maps namely PAGE global agricultural extent; PAGE global agricultural extent version 2; mask of the global extent of agriculture; PAGE global agroecosystems; percentage tree cover within the extent of agriculture; carbon storage in soils within the PAGE agricultural extent; agriculture share of watershed; area free of soil constraints; and outline of land and water area. There is an online form to [request the dataset](#). [Source: IFPRI Learning Newsletter, August 2005]

### [Morocco developing national GIS for petroleum and natural gas exploration and production](#)

The implementation of a national Geographic Information System (GIS)-based information management system to improve Morocco's exploration and production of oil, natural gas, hydrocarbon, and other minerals is the goal of a U.S. Trade and Development Agency (USTDA) grant that was awarded in September 2005 to the Office National des Hydrocarbures et des Mines (ONHYM) of Morocco.

### [Populations at Risk Information Project](#)

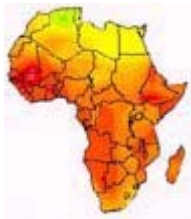
Two significant milestones were reached under the Populations at Risk Information Project (P@RI). First, the Humanitarian Information Unit at the U.S. State Department has now received commitments from a number of partner US government agencies sufficient to fully fund a National Academies of Science/National Research Council (NRC) study to evaluate the uses of sub-national demographic data and decision-making tools to more effectively assist populations at risk. Second, with financial support from NGA, the National Technical Alliance (NTA) has agreed to collaborate with the HIU on the development of prototype country decision support packages to demonstrate the value of more accurate subnational information for responding to crises. These country packages are an important initial input to the NRC study. Data that the HIU have collected on Mozambique, Mali, and Haiti – three countries initially selected for prototypes – will be delivered to NTA for inclusion in the packages. The P@RI project is a HIU-led interagency initiative stemming from recognition that the USG needs better capability to more accurately estimate sub-national population information in crisis-prone and data-poor countries. [Source: HIU Highlights Report]

## Training Opportunities

**3rd International Course – Disaster Risk Reduction and Development**, 31 October – 11 November 2005, Dutton's Cove, Herold's Bay, Garden Route, South Africa. The [African Centre for Disaster Studies](#) presents the 3rd International course on Disaster Risk Reduction and Development. For information, send an email to [jenny@acds.co.za](mailto:jenny@acds.co.za) or [sosls@puk.ac.za](mailto:sosls@puk.ac.za) stating ISDR/ACDS FELLOWSHIP in the subject line or fax +27 18 293 5266 using the same subject line. Registration closes: 3 October 2005.

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

The Programme, beginning in January 2006, is being organised by the UN-affiliated African Regional Centre for Space Science and Technology Education in English (ARCSSTE-E) in collaboration with the Nigerian National Space Research and Development Agency (NASRDA). Further information can be obtained from Dr. O.O. Jegede, Director of the Centre, [arcsstee@oauife.edu.ng](mailto:arcsstee@oauife.edu.ng), and the application form can be



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downloaded from the [ARCSSTE-E website](#). Candidates must be from the following countries: Angola, Botswana, Cameroon, Egypt, Ethiopia, Ghana, Kenya, Lesotho, Liberia, Malawi, Mozambique, Namibia, Nigeria, Sierra Leone, South Africa, Sudan, Swaziland, Tanzania, The Gambia, Uganda, Zimbabwe. In special cases, candidates from other countries may also be considered. Travel support (return airfare) is provided for candidates from outside Nigeria through funding by the UN Office for Outer Space Affairs. Additional financial assistance in the form of scholarships will be awarded to deserving candidates. Deadline: 30 October 2005. [Source: UNOOSA-STD M List]

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

- October 20 - Overview of Developer Products
- November 10 - Understanding Spatial Statistics
- December 1 - Making Professional Map Layouts

[Geo-information Science and Earth Observation for Environmental Modelling and Management \(GEM\)](#), starting in September 2006. This Masters Course is supported by the prestigious EU Erasmus Mundus programme. EU-funded scholarships are offered to exceptional (non-EU) students, as well as access for full fee-paying students (from the EU and the rest of the world). It is run sequentially by: the University of Southampton (United Kingdom); Lund University (Sweden); the University of Warsaw (Poland); and the International Institute for Geo-Information Science and Earth Observation ITC (the Netherlands). It combines the best elements from these institutes into one course. World-renowned faculty from the four Universities, as well as visiting scholars, teach this course. Applications are invited from motivated and high quality students. The deadline for applications for the course starting in 2006 is 1 January 2006.

### [CSISS- GIS Cookbook](#)

The GIS Cookbook is a collection of simple descriptions and illustrations of GIS methods written with minimal GIS jargon. Recipes cover two GIS software platforms, ArcView 3.x and ArcGIS 8/9.x. The target users are social scientists with an interest in introducing spatial thinking into their current research and also having some experience with computers but little to no exposure to GIS. The GIS Cookbook is in its beginning stages and will be expanded to better serve the needs of social scientists.

### Funding Opportunities, Awards, Support

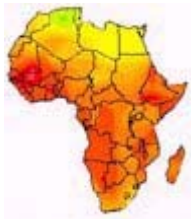
#### [Grants to Institutions in the South for Joint Research Projects](#)

The TWNSO programme awards grants to joint research projects with well-defined objectives to be undertaken jointly by two to three research institutions from developing countries. Only joint projects involving institutions with well-established expertise and adequate basic equipment will be considered for those grants. The selection of projects for the grants will be based on scientific merit and on the benefits of the project to the industrial and socio-economic development of the countries concerned. A Research Grant will amount to a maximum of US\$ 30,000 and will be provided for up to 2 years. The Research Grant can be utilized for purchasing scientific apparatus, consumable materials, specialized literature and any other items needed for the joint project by any of the cooperating institutions. Part of the grant can be allocated for exchange visits of personnel and for organizing small research and training workshops at any of the institutes involved. Local expenses, such as staff salaries and routine expenses, will not be covered by the grant. Completed forms should be sent to the TWNSO Secretariat by 1 December of each year.

Are you reading the SDI-Africa newsletter without having subscribed to the GSDI News List? GSDI would be grateful if you would [sign up](#) to the List with your institutional affiliation and country. There is no charge for signing up. And this way, GSDI can better identify its African and global network. Thank you.

#### [Applications invited for Young Scientists' Global Change Conference](#)

Submissions of papers and posters are invited from young scientists (age 35 years or less) on physical, biological and human aspects of global change to be presented at the Young Scientists' Global Change



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Conference. The conference is endorsed by the Earth System Science Partnership and is being organized by [START](#), the global change SysTEM for Analysis, Research and Training. It is expected that the young scientists will participate in the Earth System Science Partnership's Open Science Conference, Global Environmental Change: Regional Challenges (November 9-12, 2006, Beijing International Conference Center, <http://www.essp.org/essp/ESSP2006/>) that immediately follows the Young Scientists' Conference. Papers utilizing interdisciplinary approaches that address the earth system are encouraged. Although the deadline for abstracts is 1 March 2006, applicants are strongly encouraged to submit a preliminary expression of interest form by November 15, 2005 to facilitate conference organization, ensure relevancy to the conference topic and receive application instructions. All inquiries and submissions must be made electronically to Conference organizers at: [ysc@agu.org](mailto:ysc@agu.org). Wherever possible, those having papers/posters accepted will have their full costs covered. Depending on funds available, participants from developed countries may be required to cover some portion of their own travel expenses. The conference will be held at the Beijing International Convention Center and is being held in conjunction with the ensuing Earth System Science Partnership's Open Science Conference.

### 4<sup>th</sup> Call for Proposals – “Global Change and Ecosystems”

The Framework Programme 6 (FP6) is the European Union's main instrument for research funding in Europe. The programme aims to foster scientific excellence, co-operation and co-ordination between relevant stakeholders at all levels. The Global Change and Ecosystems in FP6 is not confined to the European continent and it is anticipated that many projects could benefit from co-operation and collaboration with non-European partners. For this purpose the European Commission has earmarked funds specifically for third country participants. Relevant topics for the [4th call for proposals](#) are as follows:

- Twinning between European and third countries river basins
- Sustainable sanitation in developing countries
- Establishment of knowledge networks for solving real-life water problems in developing problems
- Water in Agriculture: new systems and technologies for irrigation and drainage
- Advances in desalination
- Water scenarios for Europe and for neighbouring countries
- Assessment and forecasting of changes in sea ecosystems and their ability to provide services
- Combating land degradation and desertification
- Development of tools for impact assessment of land uses policies on the sustainability of developing countries
- Climate changes impacts in central-eastern Europe and Mediterranean areas

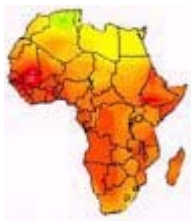
The deadline for the submission of proposals will be November 3, 2005 and March 2, 2006.

### 2006 Whitley Award for International Nature Conservation

The Whitley Award for International Nature Conservation was developed to recognise conservation leaders from around the world who are applying sustained effort to conserve the natural environment. The scope of interest has in the past included, but is not limited to: protecting endangered ecosystems and species, promoting sustainability, and influencing environmental policies. Conservationists working anywhere in the world are welcome to apply, although there is a bias towards those working in their own countries and for projects based outside the first world. Preference will be given to those who commit a considerable period of their life to working in their chosen field and have established a viable operation involving team members from the host country. Applicants do not need to be qualified scientists, but candidates must be able to compile a written report to describe and quantify the success of their work with appropriate references. The [application](#) deadline for the 2006 Award is November 18, 2005. The application materials can be downloaded or emailed to you upon request by contacting [info@whitleyaward.org](mailto:info@whitleyaward.org).

### Prix de l'Organisation des Nations Unies en matière de service public

Les prix seront décernés dans les trois catégories suivantes: 1) amélioration de la transparence, de la reddition de compte et de la réaction aux besoins des citoyens dans les Services Publics; 2) amélioration de la prestation de services; et 3) utilisation des Technologies de l'Information et de la Communication (TIC) dans l'Administration: Administration électronique. Le processus de soumission comporte deux étapes. Tout d'abord, le formulaire de candidature doit être complété électroniquement. Le formulaire est disponible à l'adresse suivante [www.unpan.org/dpepa\\_PSAward.asp](http://www.unpan.org/dpepa_PSAward.asp) et seules les candidatures soumises



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électroniquement seront acceptées. Il est fortement recommandé de soumettre les candidatures le plus tôt possible et au plus tard le 15 novembre 2005. Contact: Mr. John-Mary Kauzya, [kauzya@un.org](mailto:kauzya@un.org).

### [Call for nominations for the 2006 UN Public Service Awards](#)

The Division for Public Administration and Development Management (DPADM) of the United Nations Department of Economic and Social Affairs invites nominations for the 2006 United Nations Public Service Awards. Awards will be given in the following three categories: 1) improving transparency, accountability, and responsiveness in the Public Service; 2) improving the delivery of services; and 3) application of Information and Communication Technology (ICT) in Government: e-Government. The application process consists of two stages. First, an application form has to be completed online. The form is available from [www.unpan.org/dpepa\\_PSaward.asp](http://www.unpan.org/dpepa_PSaward.asp) and only online nominations will be allowed to enter the competition. It is strongly recommended that applications are submitted as soon as possible and no later than 15 November 2005. Contact: Mr. John-Mary Kauzya, [kauzya@un.org](mailto:kauzya@un.org).

### [2005 St. Andrews Prize for the Environment](#)

Applications are now invited from individuals, multi-disciplinary teams or community groups for the 2006 St Andrews Prize for the Environment. Applicants are free to choose whatever environmental challenge they wish. Some examples of the type of topics the prize considers are: food supply; community regeneration; communication and education; waste and recycling; environmental justice; energy; agriculture and by-products from waste, health and water issues. For the past seven years the St Andrews Prize for the Environment has been attracting entries from around the world. The prize is an international initiative of the University of St Andrews and the energy company ConocoPhillips, and is dedicated to supporting and recognising significant contributions to environmental conservation and sustainable development. It is a forum for practical environmental ideas that combine good science, economic realism and political acceptability. Submissions are requested in two stages, the first - a single page summary of your practical environmental solution - is due by 31 October 2005. The Prize consists of an award of \$30,000USD and a medal. Awards of \$5,000USD are given to the runners-up.

### [Climate and Society Student Fellowships and Research Assistantships, Columbia University M.A. Program](#)

This new twelve-month masters degree will train professionals and academics to understand and cope with the impacts of climate variability and climate change on society and the environment. At the end of twelve intensive months of study, graduates will be prepared to address environmental issues from positions in government, business, and nongovernmental organizations. Some may wish to continue their academic careers in the social or natural sciences. A limited number of Climate and Society program Fellowships and research assistantships are available. Also, scholarships are available to students on the basis of merit and need, regardless of citizenship. Applications for admission in September 2006 can be submitted as early as October 2005. Contact: [climatesociety@ei.columbia.edu](mailto:climatesociety@ei.columbia.edu).

### [International Dissertation Field Research Fellowship \(IDRF\)](#)

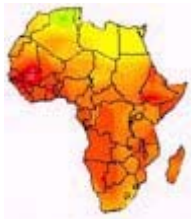
The IDRF program supports full-time graduate students in the humanities and social sciences who are enrolled in doctoral programs in the U.S., regardless of citizenship, conducting dissertation field research in all areas and regions of the world. Fifty fellowships of up to \$20,000 will be awarded annually with funds provided by the Andrew W. Mellon Foundation. Deadline: November 10, 2005.

### [Australian Development Scholarships Information Kit for 2006](#)

Each year, the Australian Government sponsors people from developing countries, mainly in the Asia/Pacific region (but it is open to African students) to study in Australia through Australian Development Scholarships (ADS). After completing their studies, students return home and use their skills and knowledge to assist with the development of their country.

### [Norad Fellowship Programme](#)

The Norad Fellowship Programme offers fellowships to students from developing countries to enable them to study for a Master's degree in Norway. Curricula and all lectures are given in English. Candidates from the following countries may apply: Angola, Eritrea, Ethiopia, Madagascar, Malawi, Mali, Mozambique, Nigeria, South Africa, Sudan, Tanzania, Uganda, Zambia and Zimbabwe. The application deadline for courses starting autumn 2006 is December 1, 2005.



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### [Netherlands Fellowship Programmes \(NFP\) 2006 for PhD and Master Programmes and Short Courses](#)

The NFP target group consists of mid-career professionals who are already in employment and who are nationals of or working in one of [57 selected countries](#). While fellowships are awarded to individuals, the need for training must occur within the context of the organization for which an applicant works. The training must help the organization to develop its capacity. This means that applicants must be nominated by their employers. Applications for PhD research projects starting in 2007 must reach The Netherlands embassy or consulate in the applicants own country before 1 June or before 1 October 2006. See [Fellowship application deadlines for Master's degree programmes](#). See [short course overview](#) and [fellowship application deadlines for short courses](#) starting in 2006.

### [Research Training Grants in Tropical Diseases – 2006](#)

The UNICEF/UNDP/World Bank/WHO Special Programme for Research and Training in Tropical Diseases (TDR) invites applications for the award of Research Training Grants (RTG) from individuals who are nationals of, and employed in, least developed disease endemic countries (LDC) and developing disease endemic countries (DEC) with lesser developed research capacities. RTGs are awarded, on a competitive basis, for studies leading to a postgraduate degree, or for acquiring specialized skills. Studies must be on one or more of the TDR target diseases - malaria, leishmaniasis, schistosomiasis, lymphatic filariasis and onchocerciasis, African trypanosomiasis and Chagas disease, leprosy, dengue and tuberculosis, in laboratory, clinical, applied field research and social sciences disciplines, relevant to TDR and/or national priorities. Deadline: November 15, 2005.

## Employment Opportunities

### [Request for Expressions of Interest – Review and Design of Land Information Systems \(LIS\) and Land Registration System \(LRS\) in Lesotho](#)

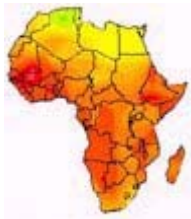
The Government of the Kingdom of Lesotho (the “Government”) has received from Millennium Challenge Corporation (“MCC”) a grant of \$600,000 to support development of a compact for economic growth and poverty reduction in Lesotho. The Government intends to apply part of the grant to finance a consulting project on the Review and Design of Land Information Systems (LIS) and Land Registration System (LRS). Duration: 17 weeks (US\$200,000). In the context of on-going land tenure reform projects in Lesotho, the Service Provider (a firm, joint venture or other legal entity) will evaluate current land administration processes and systems and make recommendations regarding how to enable Land Institutions, Local Authorities and communities to adopt the best procedures for recording land rights and providing land information services. Submissions must be delivered by 17 October 2005. [Source: EIS-AFRICA]

### [GIS Officer](#), P-3, Multiple Duty Stations

The incumbent serves as a GIS Officer at the Joint GIS Unit in a UN field mission. The unit would prepare, maintain and provide geographic information timely to UN staff in the mission including the Special Representative of the Secretary-General (SRSG), Force Commander (FC), Civilian Police Commissioner and Director of Administration (DOA). The unit comprises GIS staff members from civilian, military and civilian police components. The incumbent is responsible for planning, operating, developing and implementing of the mission's geographic information related works that are: Assists the Chief GIS Unit (CGIS) in the areas of GIS, GPS, image processing and mapping as well as its applications; Provides GIS support plans to meet the mission's operational requirements; Coordinates all GIS related matters with users and offices of the mission; Provides geographic data collection, evaluation and dissemination, and production of larger scale operation maps as required; Provides terrain analysis studies and prediction of the effects of weather, terrain and situations on the UN peacekeeping operations; Archives mission geographic data and maintains the GIS database; Maintains mission intranet map server(s) and its service such as ArcIMS; Provides and conducts GIS training and education programs for Mission staff. Deadline: 30 October 2005.

### [GIS Assistant](#), FS-4, Multiple Duty Stations

the incumbent serves as a GIS Assistant at the Joint GIS Unit in a UN field mission. The unit would prepare, maintain and provide geographic information timely to UN staff in the mission. The unit comprises GIS staff members from civilian, military and civilian police components. The incumbent is responsible for operating and maintaining of the mission's GIS systems and its related works that are: Provides geographic data



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collection, evaluation and dissemination, and production of larger scale operation maps as required; Provides terrain analysis studies and prediction of the effects of weather, terrain and situations on the UN peacekeeping operations; Archives mission geographic data and maintains the GIS database; Operates mission intranet map server(s) and its service such as ArcIMS; Assists to provide GIS training and education programs for Mission staff. Deadline: 30 October 2005.

### [Associate Programm Officer](#), P-2, Nairobi, Kenya

The United Nations Environment Programme seeks an Associate Programme Officer (P-2) for the Division of Regional Cooperation. Duties: provide support in the development and co-ordination of technology support and capacity-building activities in Regional Office for Africa (ROA); provide support in the implementation of the United Nations Convention to Combat Desertification activities in ROA; and support in the implementation of land and water policy-related activities in the region. Required: University Degree in business administration, management, economics, environmental studies or other relevant discipline or the equivalent combination of education and experience in a related area; two to three years of experience in the field of sustainable development or the environment; and fluency in oral and written English. Vacancy Announcement No.: 05-PGM-UNEP-407259-R-NAIROBI. Deadline: October 18, 2005.

### [Communications and Database Officer / Field Coordinator](#), Arusha, Tanzania

Tanzania Wildlife Research Institute ([TAWIRI](#)), in collaboration with Zoological Society of London (ZSL) wishes to recruit two suitably qualified Tanzanians for these positions to work in the Tanzania Carnivore Project which is funded by the Darwin Initiative of the UK Government. The successful candidates will be based at TAWIRI Headquarters at Njiro in Arusha. Deadline: October 20, 2005. [Source: TZGISUG List]

### [Curricula Design Consultant for Short Courses and Master's Program Integrated Water Resources Management](#), Dar es Salaam, Addis Ababa, Nairobi, Cairo, home base.

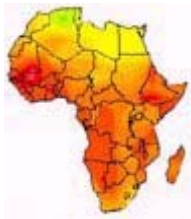
The Nile Basin countries in their quest to manage water in an integrated manner have decided to build capacity in the learning institutions by launching a Regional master's program in IWRM. The program will be modular in nature. Short courses, too, will be offered to impart needed skills and knowledge in integrated water resources management to practitioners in the Nile basin institutions (capacity building institutions, NGO's, private sector, etc.). Consultancy duration: up to 30 working days. Deadline: October 13, 2005.

### **Research Leader: ICT4EO**, Pretoria, South Africa

The ICT4EO Research Group is a new research entity being established at the CSIR (South Africa). The group has three focus areas: 1) Geospatial/Image Processing; 2) Geospatial Architectures; and 3) Geospatial Applications. In focus area (1) the primary interest is in researching/developing intelligent processing chains. CSIR currently is using OSSIM and their intention is to extend OSSIM capabilities to include vector processing. Ultimately, they see OSSIM chains being controlled/managed by OGC web services (e.g. Sensor Planning Service). In other words, they see OSSIM becoming increasing integrated into the OGC OWS architecture. Focus area (2) deals with OGC OWS architecture, particularly Sensor Web Enablement. What CSIR wants to do is research and develop a semantic query interface to the Sensor Web. So they are looking at ontological engineering and suchlike. They intend to build upon the ORCHESTRA reference model architecture being developed in Europe (FP6 funded project). Focus area (3) provides test cases for (1) and (2). They are focusing on applications for Land Cover Change Analysis and Disaster Early Warning. CSIR is looking for a world class research leader to define and manage the research agenda in these three focus areas. This leader will probably be appointed as a Professor at a local university and will be expected to supervise PhD/MSc students engaged in ICT4EO research. The leader will be appointed on a term contract of say 3 years. The research leader will work closely with a research group leader (whose role is to manage the competency area, rather than the research agenda). The research leader will also assist in identifying/recruiting principal scientists to lead the three focus areas. If you are interested or know of somebody with a good track record and leadership skills who may be interested in the research leader position, contact Andrew Terhorst, [aterhorst@csir.co.za](mailto:aterhorst@csir.co.za). CSIR is looking at appointing somebody in the new year (January 2006).

### [Associate Professor / Senior Lecturer / Lecturer](#), University of Cape Town, Cape Town, South Africa

The [Division of Geomatics in the School of Architecture, Planning and Geomatics](#) is seeking applications for this post for appointment from 1 January 2006 or as soon as possible thereafter. Candidates should have a



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university degree in Geomatics/Surveying, strong interests in Geographical Information Systems, Photogrammetry and Remote Sensing, and preferably hold a doctorate in one of the subject areas of Geomatics. The successful candidate will be expected to teach at undergraduate and postgraduate levels in the areas of Geographic Information Systems, Photogrammetry, Remote Sensing and Surveying, and conduct research in one of the subject areas of Geomatics. Deadline: 14 October 2005. Late applications will be considered. Contact: Ms L Mabalane, [mabalane@bremner.uct.ac.za](mailto:mabalane@bremner.uct.ac.za).

### **Technical Officer, Soil Management**, Rome Italy

The Food and Agriculture Organization of the United Nations seeks a Technical Officer, Soil Management (P-2) for the Land and Plant Nutrition Management Service. Duties: collect, analyse, update and disseminate information on land degradation, soil management and reclamation options, particularly for degraded and problem soils; participate in the design and implementation of programmes and projects, including technical backstopping, on land degradation assessment and integrated soil management practices; and assist in developing training material and participate in training courses tailored to farmers' field schools approach, on soil management and rehabilitation and conservation. Required: University Degree in Soil Science, Agronomy or a closely related field; three years of relevant experience related to soil reclamation and soil rehabilitation work which included working experience in developing countries; and working knowledge of English, French or Spanish and limited knowledge of one of the other two. Deadline: November 1, 2005. Vacancy announcement number: 1449-AGL.

### **Senior Sustainable Development Officer (P-5)**, New York, NY, USA

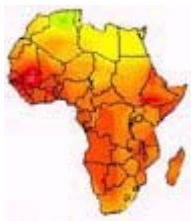
The United Nations seeks a Senior Sustainable Development Officer (P-5) [**Spécialiste du développement durable** (français)] for the Department of Economic and Social Affairs. Duties: facilitates and coordinates preparation of analytical and policy options reports to the Commission on Sustainable Development pertaining to the work programme of the Commission; develops scoping papers and working outlines for the Secretary General's biennial reports on overall progress with implementation of Agenda 21 and the Johannesburg Plan of Implementation; oversees the preparation of a biennial "trends" publication that summarizes in user-friendly format major indicators related to the themes under consideration by the Commission; and facilitates strategy and policy development for the Division by analyzing trends and emerging issues in sustainable development, including those related to means of implementation like innovative financing mechanisms and the use of economic instruments. **REQUIRES:** Advanced university degree (Master's degree or equivalent) in economics, another social science, public policy, or environmental science; 10 years experience in sustainable development policy analysis, policy formulation, or related field, at least 5 years of which should be at the international level; and fluency in oral and written English. Deadline: October 28, 2005. Announcement No.: 05-ECO-DESA-407497-R-NEW YORK.

### **Earth Institute Fellow**, Palisades, New York, USA

Columbia University Earth Institute Fellows Program in Sustainable Development (granted for 24 months). Columbia University seeks candidates interested in enhancing their disciplinary research (in one of the core disciplines represented within the [Earth Institute](#), i.e., any of the earth sciences, biological sciences, engineering sciences, social sciences, or health sciences), while at the same time acquiring the cross-disciplinary expertise and breadth needed to address critical issues related to sustainable development and reducing environmental degradation, poverty, hunger, and disease. Contact Hilary Cisneros Dewhurst, Manager, Fellows Program, [hd6@columbia.edu](mailto:hd6@columbia.edu). Applications submitted by December 1 will be considered for fellowships starting in the summer or fall of the following year.

### **Assistant Professor in Geographic Information Science**, Worcester, MA, USA

[Clark University Department of International Development, Community, and Environment \(IDCE\)](#) seeks to fill a position as Assistant Professor in Geographic Information Science (GIS) to begin August 2006. The candidate must demonstrate the ability to teach courses supporting bachelors, masters, and doctoral programs in applied GIS. A major responsibility will be to teach technical courses and to advise student research in Clark's Master of Arts program in GIS for Development and Environment. PhD or equivalent in a relevant discipline is required by May 2006. Candidates must have expertise in ArcGIS and Idrisi software and have a record of research using GIS for practical applications. Preference will be given to candidates who have experience in applying GIS to two or more of the following: brownfield revitalization, community planning, conservation planning, disaster management, decision support, environmental policy, health



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surveillance, international development, land change, public participation, risk analysis, water resources, and natural resource management. The initial appointment will be for a three-year term. The GIS position is linked to Clark's Graduate School of Geography and Clark Labs, creators of the software Idrisi. Applicants must show commitment to teaching and working collaboratively within an interdisciplinary program. Detailed statement of interest, curriculum vitae, and list of references should be sent via email attachment to Laura Kaub, [lkaub@clarku.edu](mailto:lkaub@clarku.edu). Review of applications will begin 15 October 2005 and will continue until the position is filled.

**Full Professor W3 "Spatial Planning in Developing Countries"**, Dortmund, Germany  
The call for applications has been extended until October 10, 2005.

### Other

#### **World Resources 2005: The Wealth of the Poor: Managing Ecosystems to Fight Poverty**

The report stresses the urgent need to look beyond aid projects, debt relief and trade reform and focus on local natural resources to address the crisis of poverty in all parts of the globe. "Traditional assumptions about addressing poverty treat the environment almost as an afterthought," said Jonathan Lash, President, World Resources Institute (WRI). "This report addresses the stark reality of the poor: three-fourths of them live in rural areas; their environment is all they can depend on. Environmental resources are absolutely essential, rather than incidental, if we are to have any hope of meeting our goals of poverty reduction." The model presented in the report details how natural resources – soils, forests, water, fisheries – managed at the local level are frequently the most effective means for the world's rural poor people to create wealth for themselves. Dozens of case studies detailed within World Resources 2005 demonstrate how local stewardship of nature can be a powerful means of fighting poverty.

#### **Call for paper proposals - Land reform, land tenure, and land use: assessing the linkages**

The Junior Research Group on Postsocialist Land Relations, Humboldt University, Berlin, is inviting proposals for cutting-edge empirical papers on the linkages between land reform, land tenure, and land use. The papers should originate from multiple disciplines, in particular agricultural economics, development studies, geography, rural sociology, and social anthropology. They should examine the linkages between land reforms, land tenure, and land use in a variety of geographical settings, including postsocialist and postcolonial contexts and countries in Africa, Asia, Eastern Europe, and Latin America. Paper proposals (1,000-2,000 words) should be sent to Thomas Sikor, [thomas.sikor@rz.hu-berlin.de](mailto:thomas.sikor@rz.hu-berlin.de), or Daniel Müller, [d.mueller@rz.hu-berlin.de](mailto:d.mueller@rz.hu-berlin.de), by November 30, 2005.

#### **The Millennium Development Goals in Africa: Progress and Challenges** (August 2005)

This short report documents the UN Economic Commission for Africa's findings and draws on other relevant research to offer practical policy advice on how Africans in government, business, civil society and other sectors can work together to accelerate progress. [Source: SARPAN]

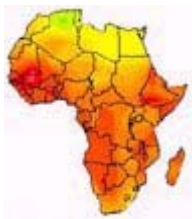
**Meeting the challenges of Africa's development: A World Bank group action plan Africa Region**, The World Bank, 7 September 2005. [Source: SARPAN alert: September 14, 2005]

#### **Africa – Up in smoke? The second report from the Working Group on Climate Change and Development**

"The world's wealthiest countries have emitted more than their fair share of greenhouse gases. Resultant floods, droughts and other climate change impacts continue to fall disproportionately on the world's poorest people and countries, many of which are in Africa." This Report finds that concerns about the effects of climate change on rural African societies are more than justified. Climate change is happening, and it is affecting livelihoods that depend on the natural environment, which, in Africa, means nearly everyone. However, even without adequate support, far from being passive victims, people recognize even small changes in climate, and are taking steps to respond to them.

#### **Access to Global Online Research in Agriculture (AGORA)**

The AGORA site provides access to 747 journals from major scientific publishers in the fields of food, agriculture, environmental science and related social sciences. AGORA is available to students and researchers in qualifying not-for-profit institutions in eligible developing countries.



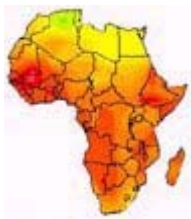
# Spatial Data Infrastructure – Africa Newsletter

## [Système de recherche mondiale en ligne sur l'agriculture \(AGORA\)](#)

Le site AGORA permet d'accéder à 747 revues de grands éditeurs scientifiques des domaines tels que l'alimentation, l'agriculture, la science environnementale et les sciences sociales apparentées. AGORA est à la disposition des étudiants et chercheurs, des institutions à but non lucratif dans des pays en voie de développement admis.

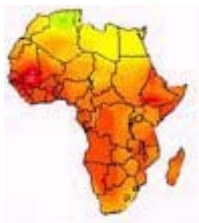
Conferences, Events		
Date	Location	Event
<b>October 2005</b>		
3-4 October	New Delhi, India	<a href="#">Graticule 2005</a> International conference on positioning technologies - GPS, GLONASS, GALILEO and GAGAN. Contact: <a href="mailto:info@graticule.org">info@graticule.org</a> . Deadline for abstracts: <u>July 31, 2005</u> .
3-7 October	Frascati (Rome), Italy	<a href="#">TIGER Workshop</a> The workshop will bring together the TIGER stakeholders group (African water authorities, universities, technical centres, space agencies, development partners, etc..) in order to review the status of the TIGER initiative, analyse the information needs of the African water sector and plan the future developments of TIGER. Abstract deadline: <u>15 August 2005</u> . Contact: <a href="mailto:esa.conference.bureau@esa.int">esa.conference.bureau@esa.int</a> .
3-7 October	Nairobi, Kenya	<a href="#">3rd World Congress on Conservation Agriculture</a> . Theme: "Linking Production, Livelihoods and Conservation"
5-6 October <b>* NEW *</b>	Issy-les-Moulineaux, France	<a href="#">SIG 2005 – Conference Francophone ESRI</a> Contact: <a href="mailto:sig2005@esrfrance.fr">sig2005@esrfrance.fr</a> .
5-8 October	Johannesburg, South Africa	<a href="#">ACT 2005 – 7th Annual African Computing &amp; Telecommunications Summit</a> , Theme: "Matching investors & partners with African ICT enterprises & projects". Deadline for abstracts: <u>30 June 2005</u> .
8-12 October	Kansas City, Missouri, USA	<a href="#">Urban and Regional Information Systems Association (URISA)'s 43rd Annual Conference</a> Abstract deadline extended to: <u>February 11, 2005</u>
9-13 October	Bonn, Germany	<a href="#">6th Open Meeting of the Human Dimensions of Global Environmental Change Research Community</a>
17-22 October <b>* NEW *</b>	Nairobi, Kenya	<a href="#">CGIAR Consortium for Spatial Information meeting</a> . Contact: <a href="mailto:r.zomer@cgiar.org">r.zomer@cgiar.org</a> .
19-20 October <b>* NEW *</b>	Hartenbos, South Africa	<a href="#">Disaster Risk Reduction 2005</a>
20-22 October <b>* NEW *</b>	Maputo, Mozambique	<a href="#">Joint FAO/PARIS21 Workshop on Strengthening Food and Agricultural Systems in Africa</a>
23-26 October	Chicago, Illinois, USA	<a href="#">2005 ESRI Health GIS Conference</a> Contact: James Cox, <a href="mailto:jcox@esri.com">jcox@esri.com</a> .
24-27 October <b>* NEW *</b>	Maputo, Mozambique	<a href="#">19th Session of the African Commission on Agricultural Statistics</a>
23-27 October	Sioux Falls, South Dakota, USA	<a href="#">Pecora 16 - "Global Priorities in Land Remote Sensing"</a> Deadline for abstracts: <u>February 15, 2005</u> .
25-27 October	Addis Ababa, Ethiopia	<a href="#">The 6th UNGIWG Meeting (United Nations Geographic Information Working Group)</a> Contact: Mr. Michal Smolka, Geospatial Coordinator, ODAVAM, WFP-Rome, <a href="mailto:michal.smolka@wfp.org">michal.smolka@wfp.org</a> .
25-29 October	Kusadasi, Turkey	<a href="#">MEDCOAST 2005 – 7<sup>th</sup> International Conference on the Meditterranan Coastal Environment</a> Deadline for abstracts: <u>January 31, 2005</u> .
30 October – 4 November	Pretoria, South Africa	<a href="#">AFRICAGIS '05</a> Theme: Beyond Talk: Geo-information working for Africa. Deadline for submission of abstracts: <u>15 April 2005</u> .

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



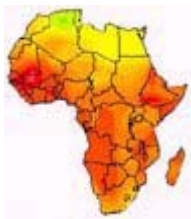
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31 October – 4 November	Nairobi, Kenya	<a href="#">11th World Lake Conference</a> / 11ème Conférence mondiale des Lacs. Theme: Management of Lake Basins for their Sustainable Use: Global Experiences and African Issues. Deadline for abstract: <u>April 15, 2005</u> . Contact: <a href="mailto:info@ileckenya.go.ke">info@ileckenya.go.ke</a>
<b>November 2005</b>		
9-11 November	Johannesburg, South Africa	<a href="#">Government Technology Africa 2005</a> - a forum where ideas are sourced, the latest technology is demonstrated and partnerships are formed to further the provision of better government services to the people.
9-11 November * NEW *	Bilbao, Spain	<a href="#">II World Summit of Cities and Local Authorities on the Information Society</a> Theme: Local Authorities building an Information Society for all.
14-16 November	Tunis, Tunisia	<a href="#">IRFD World Forum on Information Society</a> . Organized by the the International Research Foundation for Development. One of the Session Themes is Geographical Information System and Sustainable Information Society. Abstract deadline: <u>March 31, 2005</u> . Contact: <a href="mailto:wfis2005@irfd.org">wfis2005@irfd.org</a> .
14-16 November	Rabat, Morocco	<a href="#">UN/ESA Workshop on Spatial Information and Sustainable Development. Workshop international en Télédétection et SIG</a> . Date limite d'envoi des résumés: <u>15 septembre 2005</u> . Contact: Prof. EMRAN Anas, <a href="mailto:emran@israbat.ac.ma">emran@israbat.ac.ma</a> , or Dr. TRACHE Abdelhak <a href="mailto:trache@emi.ac.ma">trache@emi.ac.ma</a> .
14-16 November	Dakar, Senegal	<a href="#">Rural Development and the Role of Biomass</a> - International workshop as part of the <a href="#">Development and Climate Project</a> . Deadline for abstracts: <u>August 1, 2005</u> . Contact: <a href="mailto:marcel.kok@mnp.nl">marcel.kok@mnp.nl</a> and <a href="mailto:rutu.dave@mnp.nl">rutu.dave@mnp.nl</a> .
15-17 November	Accra, Ghana	<a href="#">1<sup>st</sup> African Regional Conference of Vice Chancellors, Provosts, and Deans of Science, Engineering, and Technology</a> . Theme: The state of science and technology training institutions in Africa and their role in socio-economic development. Contact: <a href="mailto:info@ansticonference.org">info@ansticonference.org</a> .
16-18 November	Tunis, Tunisia	<a href="#">World Summit on the Information Society</a> – 2 <sup>nd</sup> phase
20-23 November	Abu-Dhabi & Al-Ain, UAE	<a href="#">UN/ESA/NASA Workshop on the International Heliophysical Year (IHY 2007)</a> Deadline for applications: <u>1 September 2005</u> .
23-25 November * NEW *	Abuja, Nigeria	<a href="#">African Leadership Conference on Space Science and Technology for Sustainable Development</a> . Organized by NASRDA and UN COPOUS. Contact: Dr. Joseph Akinyede, <a href="mailto:jakinyede@yahoo.com">jakinyede@yahoo.com</a> .
24-25 November	Ankara, Turkey	<a href="#">ISPRS WGII/2 Workshop on 'Spatial/spatio-temporal data mining and learning'</a> . Deadline for extended abstracts: <u>19 August 2005</u> . Contact: <a href="mailto:wwwsdm05@metu.edu.tr">wwwsdm05@metu.edu.tr</a> .
25-26 November	Rabat, Morocco	<a href="#">4<sup>th</sup> National Congress, Ordre National des Ingénierus Géomètres Topographes</a> Theme: For a land administration policy serving development. Deadline for abstracts: <u>20 August 2005</u> . Contact: <a href="mailto:onigt@yahoo.fr">onigt@yahoo.fr</a>
27 November – 2 December	Yaounde, Cameroon	<a href="#">Colloque Africain Systemes d'Information et Traitement de l'Image et du Signal (SITIS) / International Conference on Signal-Image Technology and Internet-Based Systems (SITIS'05)</a> Deadline for abstract submission: <u>May 15, 2005</u> ; proposals for tutorials due: <u>June 15, 2005</u> . Contact: <a href="mailto:sitis@u-bourgogne.fr">sitis@u-bourgogne.fr</a> .
28-29 November	Pretoria, South Africa	<a href="#">International Conference on the Changing Politics of Land in Africa Domestic Policies, Crisis Management, and Regional Norms</a> Deadline for papers: <u>April 30, 2005</u> .
<b>December 2005</b>		



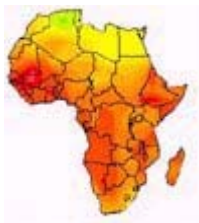
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1-2 December	Bangkok, Thailand	<a href="#">1st International Symposium on Health GIS</a> Contact: <a href="mailto:healthgis@gmail.com">healthgis@gmail.com</a> .
1-3 December	Arusha, Tanzania	<a href="#">Fifth TAWIRI Annual Scientific Conference (5thTASC)</a> . Theme: "People and Wildlife: Promoting Conservation while Balancing Needs." Deadline for abstracts: <u>September 30, 2005</u> . Contact: <a href="mailto:tawiri@habari.co.tz">tawiri@habari.co.tz</a> .
5-9 December <b>* NEW *</b>	Makerere, Uganda	<a href="#">7th African Crop Science Society Conference</a> . Deadline for abstracts: <u>31 August 2005</u> .
5-9 December	San Francisco, CA, USA	"Transforming Geoscience Access through Standards Implementation" session of the <a href="#">2005 American Geophysical Union (AGU) Fall Meeting</a> . Deadline: <u>September 8, 2005</u> .
6-8 December	Sharm El-Sheikh, Egypt	<a href="#">Middle East and Africa Conference for ESRI Users</a> Deadline for abstracts: <u>1 June 2005</u> . Contact: <a href="mailto:meuc2005@gs4it.com">meuc2005@gs4it.com</a> . The first 2 days before the conference, (4-5 December 2005) are designed to benefit GIS managers. You are welcome to register for pre-conference seminars: Cadastral and land registry, Dec. 4th, Cost: \$250; Planning and Managing GIS, Dec. 5th, Cost: \$100; Web Services, Dec. 5th, Cost: \$100.
6-10 December <b>* NEW *</b>	Maputo, Mozambique	<a href="#">11th General Assembly of the Council for the Development of Social Science Research in Africa (CODESRIA)</a> - "Rethinking African Development: Beyond Impasse, Towards Alternatives"
8-10 December	Hong Kong SAR, China	<a href="#">2005 International Symposium on GPS/GNSS</a> Contact: <a href="mailto:lswuchen@polyu.edu.hk">lswuchen@polyu.edu.hk</a> .
15-16 December <b>* NEW *</b>	Lausanne, Switzerland	<a href="#">5th International Workshop on Web and Wireless Geographical Information Systems (W2GIS)</a>
16-21 December	Cairo, Egypt	<a href="#">13th International Conference of the Geological Society of Africa on Geology and Development</a> . Local lead organisation, the Egyptian National Authority for Remote Sensing and Space Sciences (NARSS). Contact: Dr Mahmoud Abdeen, GSAf Vice-President (North Africa), <a href="mailto:m_m_abdeen@hotmail.com">m_m_abdeen@hotmail.com</a>
<b>January 2006</b>		
4-7 January 2006	Cairo, Egypt	<a href="#">Environmental Change in Lakes, Lagoons &amp; Wetlands of the Southern Mediterranean Region (ECOLLAW): 1st International Conference / Conférence sur le changement environnemental dans les lacs, lagons et zones humides de la région sud-méditerranéenne</a> . Deadline for abstracts: <u>1 July 2005</u> .
<b>February 2006</b>		
13-16 February 2006	Cairo, Egypt	<a href="#">GAW8 - 8th International Conference On The Geology Of The ARAB World</a> . Deadline for abstracts: <u>September 30, 2005</u> .
14-16 February	Ankara, Turkey	<a href="#">ISPRS WG I/5 &amp; I/6 Workshop on Topographic Mapping from Space</a> Contact: <a href="mailto:leloglu@bilten.metu.edu.tr">leloglu@bilten.metu.edu.tr</a>
22-24 February 2006 <b>* NEW *</b>	Hannover, Germany	<a href="#">ISPRS Workshop on Multiple Representation and Interoperability of Spatial Data</a> . Submission of full paper due: <u>15 November 2005</u> .
<b>March 2006</b>		
5-10 March 2006	Stellenbosch, South Africa	<a href="#">International Precision Forestry Symposium</a> Deadline for abstracts: <u>September 30, 2005</u> . Contact: <a href="mailto:packer@sun.ac.za">packer@sun.ac.za</a> .
7-11 March 2006 <b>* NEW *</b>	Chicago, Illinois, USA	<a href="#">Annual Meeting of the Association of American Geographers</a> Deadline for papers: <u>13 October 2005</u> .
9-12 March 2006	Accra, Ghana	<a href="#">5th FIG Regional Conference for Africa</a> Theme: "Promoting Land Administration and Good Governance". This conference is co-sponsored by UN FAO, UN-Habitat, UN ECA, RECTAS, ISM, etc. This conference will also be the first FIG regional conference in West Africa. Deadline for abstracts: <u>10 November 2005</u> .



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<b>14-17 March 2006</b> <b>* NEW *</b>	Bagamoyo, Tanzania	<a href="#">CASTLE Conference – Promoting Sustainable Land Management in Africa</a> . The Commonwealth Association of Surveying and Land Economy and UN-Habitat are jointly organizing this event. It is co-hosted by the Institution of Surveyors of Tanzania and the Tanzanian Institution of Valuers and Estate Agents, with the facilitation of the National Council of Professional Surveyors. Deadline for abstracts: <u>October 15, 2005</u> .
<b>16-22 March 2006</b>	Mexico City, Mexico	<a href="#">4th World Water Forum</a> The main theme of the Forum will be "Local actions for a global challenge". Guiding principles, main objectives, framework themes and topic sessions available for comments in the <a href="#">concept paper</a> .
<b>20-23 March 2006</b>	Al Ain, Abu Dhabi, UAE	<a href="#">6th International Conference on the Geology of the Middle East</a> Abstract deadline: <u>September 1, 2005</u> .
<b>22-24 March 2006</b> <b>* NEW *</b>	Cape Town, Soth Africa	<a href="#">Planning Africa Conference 2006</a> Deadline for abstracts: <u>September 30, 2005</u> .
<b>27-29 March 2006</b> <b>* NEW *</b>	Columbus, Ohio, USA	<a href="#">GIS for Transportation Symposium 2006</a> . Deadline for abstracts: <u>21 October 2005</u> .
<b>April 2006</b>		
<b>23-26 April 2006</b> <b>* NEW *</b>	Tampa, Florida, USA	<a href="#">GITA's 29<sup>th</sup> Annual Conference</a> . Theme: No Barriers: Connected. Responsive. Prepared. Deadline for abstracts: <u>May 24, 2005</u> . Contact: <a href="mailto:info@gita.org">info@gita.org</a>
<b>May 2006</b>		
<b>7-12 May 2006</b>	New Orleans, LA, USA	<a href="#">Intergraph 2006 Conference</a>
<b>8-11 May 2006</b>	Enschede, the Netherlands	<a href="#">ISPRS Commission VII Mid-term Symposium</a> Remote sensing: from pixels to processes. Deadline for abstracts: <u>October 30, 2005</u> . Contact: <a href="mailto:isprsc7@itc.nl">isprsc7@itc.nl</a> .
<b>15-17 May 2006</b>	Aalborg, Denmark	<a href="#">UDMS 2006 – 25<sup>th</sup> Urban Data Management Symposium</a> Abstract submission deadline: <u>September 30, 2005</u> . Contact: <a href="mailto:e.fendel@otb.tudelft.nl">e.fendel@otb.tudelft.nl</a> .
<b>22-25 May 2006</b>	Marrakech, Morocco	<a href="#">Integrated Water Resources Management and Challenges of Sustainable Development / Gestion Intégrée des Ressources en Eaux et Défis du Développement Durable (GIRE3D)</a> Contact: Dr. Nour-Eddine Laftouhi, <a href="mailto:gire3d@ucam.ac.ma">gire3d@ucam.ac.ma</a> ; <a href="mailto:noureddine.laftouhi@ucam.ac.ma">noureddine.laftouhi@ucam.ac.ma</a> .
<b>25-26 May 2006</b>	Orlando, Florida, USA	<a href="#">ISO/TC 211 22nd Plenary</a> <a href="http://www.isotc211.org/">http://www.isotc211.org/</a>
<b>June 2006</b>		
<b>July 2006</b>		
<b>9-15 July 2006</b>	Philadelphia, PA, USA	<a href="#">IUSS 18th World Congress of Soil Science</a>
<b>13-17 July 2006</b>	Wollongong and Sydney, Australia	<a href="#">COAST - GIS 06 - 7th International Symposium on GIS and Computer Cartography for Coastal Zone Management</a> . GIS for the coastal zone: Spatial Data, Modelling and Management; Extending the Spatial Data Infrastructure. Deadline for abstracts: <u>31 December 2005</u> .
<b>31 July – 4 August 2006</b>	Denver, Colorado, USA	<a href="#">IEEE/GARSS 2006</a> Contact: <a href="mailto:ieeegrss@adelphia.net">ieeegrss@adelphia.net</a> .
<b>August 2006</b>		
<b>7-11 August 2006</b>	San Diego, CA, USA	<a href="#">ESRI International User Conference 2006</a>
<b>September 2006</b>		



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<b>12-15 September 2006</b>	Lausanne, Switzerland	<a href="#">Foss4g 2006</a> The conference will focus on various free and open source technologies and their implementations around the world. It will also host the user meeting conferences for Open Source projects like GRASS, MAPSERVER and other EOGeo projects.
<b>October 2006</b>		
<b>8-13 October 2006</b>	Munich, Germany	<a href="#">FIG Working Week 2005 and XXVIII General Assembly</a> . Deadline for abstracts: <u>15 March 2006</u> . Contact: <a href="mailto:congress.director@fig2006.de">congress.director@fig2006.de</a> . Dealine for <a href="#">2006 FIG Congress Prize</a> : July 15, 2006.
<b>October 2006</b>	Cairo, Egypt	<b>6<sup>th</sup> African Association of Remote Sensing of the Environment (AARSE) Conference</b> . Contact: <a href="mailto:aarse@rcmrd.org">aarse@rcmrd.org</a> .
<b>October 2006</b>	Beijing, China	<b>20<sup>th</sup> CODATA (Committee on Data for Science and Technology) Conference</b> Contact: <a href="mailto:codata@dial.oleane.com">codata@dial.oleane.com</a> .
<b>November 2006</b>		
<b>4-11 November 2006</b>	Santiago, Chile	<a href="#">9<sup>th</sup> International Conference on Global Spatial Data Infrastructure</a> organized by the <a href="#">GSDI Association</a> & <a href="#">Instituto Geográfico Militar</a> . Contact: <a href="mailto:gsdi9@igm.cl">gsdi9@igm.cl</a>
<b>9-12 November 2006</b> <b>* NEW *</b>	Beijing, China	<a href="#">Open Science Conference</a> Call for papers: February - May 2006
<b>14-15 November 2006</b>	Riyadh, Saudi Arabia	<b>ISO/TC 211 23rd Plenary</b> <a href="http://www.isotc211.org/">http://www.isotc211.org/</a>
<b>December 2006</b>		
<b>2007</b>		
<b>15-20 July 2007</b>	Cambridge, UK	<a href="#">Cambridge Conference 2007</a>

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

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