

Global Spatial Data Infrastructure Latin America and the Caribbean Newsletter

SDI-LAC

September 2010

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Spatial Data Infrastructure-Latin America and the Caribbean (SDI-LAC) is a regional, monthly, and free, electronic newsletter from the [Global Spatial Data Infrastructure Association](#) (GSDI). It focuses on aspects related with Spatial Data Infrastructure, and on GIS, remote sensing, and data management issues, related with SDI in Latin America and the Caribbean. It aims to raise awareness, provide useful information to strengthen national SDI initiatives, and support synchronization of regional efforts.



[GSDI Definition](#)

The [Pan-American Institute of Geography and History](#) (PAIGH), member organization of GSDI, and the [Permanent Committee on Geospatial Data Infrastructure for the Americas](#) (PC-IDEA), promote SDI development in the region. The newsletter is prepared by PAIGH for GSDI.

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Message from the Editor

We are pleased to welcome Javier Nuñez, MSc, who has participated with developing GIS in Bolivia and internationally for many years, currently a researcher and teacher at the Geographic Research Institute (Instituto de Investigaciones Geográficas IIGEO) of the Universidad Mayor de San Andrés in La Paz, as correspondent member to SDI-LAC Newsletter for Bolivia!

Due to an increasing volume of information on events, the respective section will be restricted to those events taking place in the Americas. However, for "The Rest of the World: Conferences, SDI Events", please find a link to upcoming events of global or major international interest in GSDI webpage at: <http://www.gsdi.org/events/upcnf.asp>

We kindly inform that SDI-LAC Newsletter is taking correspondent members in each country of the LAC region. Next issues will include their contributions. If you would like to become a correspondent for your country please contact Nancy Aguirre cnaguirre@ipgh.org. In principle the only requirement is that you are an active member in the Spatial Data Infrastructure activities of your country.

If you have news or information related to GIS, remote sensing, and Spatial Data Infrastructure that you would like to highlight (e.g., projects, conferences, workshop announcements, publications, reports, websites of interest, etc.), kindly send them in. We would be happy to include them in the newsletter.

We also encourage you to send to the editor your comments and suggestions for the continuous improvement of SDI-LAC 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>

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Input to this Issue

Thanks for their contributions to this SDI-LAC Newsletter issue to:

Mabel Alvarez	President International Geospatial Society (IGS), Argentina
Frank Angulo	COVESIG Organizing Committee, Venezuela
Santiago Borrero	Secretary General, Pan-American Institute of Geography and History, PAIGH; Mexico
Arturo Brun-Martinez	Architect, Bogota, Colombia
Emil A. Cherrington	Senior Scientist, Water Center for the Humid Tropics of Latin America & the Caribbean (CATHALAC), Panama City, Panama
Rinku R. Chowdhury	Department of Geography, Indiana University, Bloomington, IN, USA
Kate Lance	SERVIR Coordinator, NASA/USRA, Huntsville, AL, USA
Milton R. Medina	Outreach CIAF (IGAC), Bogota, Colombia
Pablo Morales	Executive Secretary Snit, Chile
Douglas D. Nebert	Senior Advisor for Geospatial Technology, System-of-Systems Architect, FGDC Secretariat, USA
Javier Nuñez	Geographic Research Institute (IIGEO), Universidad Mayor de San Andrés, La Paz, Bolivia
Rocío Recio	Advanced Information Systems Group (IAAA), Department of Informatics and Systems Engineering, Centro Politecnico Superior, Universidad de Zaragoza, Spain
Kenneth Young	Chair and Professor, Department of Geography and the environment, University of Texas at Austin, USA
F.Javier Zarazaga	GeoSpatiumLab s.l., Spain

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SDI News, Links, Papers, Presentations

GSDI 12 World Conference Update



The GSDI 12 World Conference 2010 will take place in the garden city of Singapore, at the Suntec Singapore International Convention & Exhibition Centre from 19 to 22 October 2010. This conference is organized by partners - the GSDI Association, the Permanent Committee on GIS Infrastructure for Asia & the Pacific (PCGIAP) and the Singapore Land Authority (SLA).

There are three major components in this conference:

- 12th edition of the GSDI Conference;
- 16th annual meeting of the Permanent Committee on GIS Infrastructure for Asia & the Pacific (PCGIAP); and
- Trade Exhibition.

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The theme for this conference is Realising Spatially Enabled Societies. This conference will explore the complementary roles of government, private industry and the academic community in realizing better means for sharing geographic data and technologies and developing improved location-based services for meeting real world needs. Check out the program, free workshops and affiliated meetings at <http://www.gsdi.org>.

Singapore, a dynamic city rich in contrast and colour, invites you to come and engage yourself in an intellectual exchange with leaders and experts in the geospatial industry.

SPEAKERS:

Distinguished Keynote and Featured Speakers at GSDI 12 to-date include:

- Ivan B. DeLoatch, Staff Director, Federal Geographic Data Committee;
- Abbas Rajabifard, President, GSDI Association;
- Ng Siau Yong, Director of Geospatial Division, Singapore Land Authority, Singapore SDI;
- Santiago Borrero, Secretary General, Pan-American Institute of Geography and History (PAIGH/IPGH);
- Stig Enemark, President, International Federation of Surveyors (FIG);
- Mark Reichardt, President and Chief Executive Officer, Open Geospatial Consortium, Inc. (OGC);
- Ian Williamson, Professor of Surveying and Land Information, Centre for Spatial Data Infrastructures and Land Administration, Department of Geoinformatics, University of Melbourne;
- Greg Scott, National Mapping & Information Group Leader, Geospatial & Earth Monitoring Division, Geoscience Australia

SOCIAL EVENTS:

Tuesday, 19th October

WELCOME RECEPTION: Let's Fly! The Welcome Reception at the GSDI12 World Conference will be a celebration of Singapore's cultural diversity by bringing together gastronomical delights from different local ethnic groups. It will be an excellent opportunity for you to meet other conference attendees in the spectacular surroundings of the Singapore Flyer - the largest observation wheel in the world. Delegates will have a free ride on the capsules and enjoy breathtaking views of the city coming alive at night. This networking event is a great opportunity to bring your discussions to greater heights and is not to be missed!

When: Tuesday 19 October, 6.30pm - 9.30pm

Where: The Singapore Flyer, Megu Event Hall

Thursday, 21st October

CONFERENCE DINNER: There is no better way to spend an evening in Singapore! Wine, dine and network at this dinner, held on the second to last day of the GSDI 12 conference. Revel in the charm of exotic Singapore at the Asian Civilisations Museum, and look forward to experience Singapore's history, culture, architecture and cuisine. The dinner will feature a sumptuous spread of Singapore's most well-loved local delights. This event also presents an opportunity for delegates to meet and socialise amidst the city lights overlooking the Singapore River! Come join in this unique, must-have experience during your stay in the city! .

REGISTRATION for GSDI 12 is now OPEN at <http://gsdi.org/gsdi12/register.html>

For more information on the conference, please visit us at <http://www.gsdi.org/gsdi12> or follow us on Twitter at <http://twitter.com/GSDI12>.

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Survey for a Proposed SDI "How to Guide"

Source: GSDI staff acting for World Bank GIS Staff

World Bank personnel are hosting a workshop at GSDI 12 in Singapore in October (<http://gsdi.org/gsdi12>) that will explore the need for a pragmatic HOW TO GUIDE. The proposed guide would explicitly address the needs of developing countries in implementing and maintaining spatial data infrastructure at the sub-national and national levels. As input to the workshop, they would like to have your responses to a short survey. The short 10 question survey is found at <http://www.gsdi.org/survey/index.php?sid=14255&lang=en>. It should take less than ten minutes to complete for the typical respondent. Responses will remain anonymous unless you desire to divulge your identity and contact information to World Bank staff. We greatly value your input and appreciate your help.

Jack Dangermond to Receive Global Citizen Award at GSDI 12

Source: GSDI News

Jack Dangermond, founder and President of Esri, has been named to receive the Global Citizen Award of the GSDI Association. The award will be presented on the opening day of the GSDI 12 World Conference in Singapore (<http://gsdi.org/gsdi12>) where Jack, as the recipient, will give the lead keynote address. His presentation on October 19 will focus on a global vision for spatially enabling society. The Global Citizen Award is an occasional award of the GSDI Association and recognizes an individual who has provided exemplary thought leadership and substantive worldwide contributions in (1) promoting informed and responsible use of geographic information and geospatial technologies for the benefit of society and (2) fostering spatial data infrastructure (SDI) developments or geospatial advancements supporting sustainable social, economic, and environmental systems integrated from local to global scales. A recipient should be an exemplary citizen in substantively serving the needs of others internationally or globally, contribute selflessly to his or her profession, and contribute as well to his or her own community, state and nation. Jack's specific contributions will be highlighted at the award ceremony. The Global Spatial Data Infrastructure (GSDI) Association is an inclusive organization with members from all sectors - public and private - and individuals from around the world promoting international cooperation and collaboration in support of local, national, regional, and international spatial data infrastructure developments. The goal of the GSDI Association is to allow nations to better address social, economic, and environmental issues of pressing importance through the establishment and use of SDIs and geospatial information. Please see <http://gsdi.org> for more information.

Workshop Sharing SDI Research Approaches

Source: Mabel Alvarez

The workshop is free and is a follow up to the successful PhD workshop "SDI research: North and South", held prior to GSDI 11 in Delft, The Netherlands. This workshop provided an opportunity for SDI researchers to present their work and discuss issues of concern: substantive, theoretical, methodological or practical. 15 PhD students presented their work, several other PhD students attended the meeting and over 10 senior researchers/supervisors were present. The purpose of the workshop is to provide research students with the opportunity to present their research topics to other research students and experienced researchers at an open forum. Through presenting a range of varying research approaches it is hoped that a better understanding of these methods will be developed by all participants. This workshop welcomes contributions of all foci areas of an SDI. This implies socio-economic-policy oriented, technological-oriented research as well as research aiming at assessing SDIs. Students are encouraged to present their research at the meeting, provide a brief research proposal (submitted a month before the workshop) and prepare any pressing questions for discussion with the group and supervisors/senior researchers individually. The intended audience will be Masters and PhD candidates who may be at various stages of their research studies. Further details of workshop are available at <http://www.gsdi.org/gsdiconf/gsdi12/workshops.html#wrkshp1.11> or by contacting Kevin McDougall mcdougak@usq.edu.au

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Mesoamerican Territorial Information System

Source: <http://www.icde.org.co/>

The Geographic Institute “Agustin Codazzi” (in Spanish IGAC) as coordinator of the Colombian Spatial Data Infrastructure (in Spanish ICDE), and the Risk Management Division (in Spanish DGR), held first meeting of the Colombia focal point on August 20 to support construction of the [Mesoamerican Territorial Information System](#) (in Spanish SMIT), an initiative within the



Mesoamerica Integration and Development Project. The purpose of this meeting is to begin national level activities aimed at designing information management strategies that could reduce vulnerability to various natural hazards to which the region's countries are exposed. Disaster events in recent times have adversely affected the region's countries development, jeopardizing not only population but the physical infrastructure particularly linked to sectors such as education, health, transportation, telecommunications and power generation and distribution. This has led countries to redirect their scarce public and private investment resources towards emergency and reconstruction activities.

[Mesoamerican Radar Network Proposal in Progress, Panama](#)

Source: <http://www.cathalac.org/>



First ad hoc meeting for reviewing the Panamanian proposal for establishment of a "Mesoamerican Weather Radar Network" was held on August, 2010 at the Chancellery of the Republic of Panama headed by Deputy Foreign Minister and Commissioner of Panama in the Mesoamerica Project, Melitón Alejandro Arrocha Ruiz. This first meeting aimed at discussing the proposal, coordinating regional level policy with representatives of this sector's authorities, and to agreeing on a critical path to technically enrich and refine this proposal for joining efforts to promoting this strategic importance project to the Mesoamerican region. The proposal was submitted by the Water Center for the Humid Tropics of Latin America and the Caribbean (CATHALAC) and is part of the priority areas in this region constantly affected by natural disasters such as floods, hurricanes, landslides, and forest fires, among others, which

prevent a steady growth of the region's countries and achieving optimal levels of regional development, said Deputy Arrocha. It also seeks to strengthen regional institutions involved on these issues to reduce national socio-economic vulnerabilities based on timely and reliable information for proper land use planning. The Mesoamerica Project, originally known as Plan Puebla Panama, is a political, cooperation, development and integration mechanism comprising ten countries (Belize, Colombia, Costa Rica, El Salvador, Guatemala, Honduras, Mexico, Nicaragua, Panama and Dominican Republic) that facilitate specific project management and implementation aimed at strengthening national capacities and improving the region's population life quality. Currently, the Mesoamerica Project develops eight priority areas including energy, telecommunications, transportation, trade, sustainable development, health, housing and natural disasters. The meeting was attended by Arturo Barrio, Presidential Assistant Commissioner of Mexico; Emilio Sempris, Director of CATHALAC; Joel Perez, Coordinator of the Territorial Information System for Reducing Disaster Risk; regional representatives of the Regional Committee on Hydraulic Resources (in Spanish CRRH), World Meteorological Organization (WMO), United Nations Environment Programme (UNEP); and officials of the Foreign Ministry of the Republic of Panama.

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Luis Bermudez Joins OGC as Director, Interoperability Certification

Source: OGC Press Release

The Open Geospatial Consortium (OGC®) announces that [Dr. Luis E. Bermudez](#) has been appointed Director of Interoperability Certification for the Consortium. In his new position, Dr. Bermudez will manage the OGC Certification Program, lead plugfest activities, and support OGC testbeds, pilots and interoperability experiments designed to develop, test and validate specifications for geospatial information. Dr. Bermudez has a Ph.D. and M.S. in Hydro informatics from Drexel University and an M.S. in Industrial Engineering from the Andes University in Bogota, Colombia. Dr. Bermudez has done pioneering work in geospatial interoperability including ontologies and geospatial metadata frameworks used in environmental observatories. At the Southeastern University Research Association (SURA), he managed the technical implementation of the SURA Coastal Ocean Observing Prediction (SCOOP), supporting improvement of numerical coastal models and the integration of ocean observing systems around the world. He also served as the technical lead of the Marine Metadata Interoperability Project. Dr. Bermudez's appointment underscores OGC's commitment to providing excellent technology leadership and support to the Consortium's world class geospatial technology and location based Web services consensus standards programs. "Luis has been a valued member of the OGC community," said George Percivall, OGC's Chief Architect and Executive Director of the Interoperability Program. "We are fortunate to have someone of his caliber on staff to direct the Consortium's certification program." Dr. Bermudez has co-authored multiple publications. He has led a major ocean observing system interoperability program and was the technical lead of OGC's Ocean Sciences Interoperability Experiment. He was a member of several OGC standard working groups and an invited expert at the W3C Semantic Sensor Network working group.



OGC and ISPRS to Collaborate on GEOSS and Other Activities

Source: OGC Press Release

The Open Geospatial Consortium, Inc. (OGC®) and the International Society for Photogrammetry and Remote Sensing (ISPRS) have signed a Memorandum of Understanding (MoU) to enhance the development and use of geospatial standards. Under the agreement the two organizations will work cooperatively to raise the awareness, acceptance, and implementation of open standards and to promote educational programs and best practices that benefit the memberships of ISPRS and OGC and practitioners worldwide. This will involve Global Earth Observing System of Systems (GEOSS) demonstrations and workshops, sensor network standardization events, and events on topics such as multi-source data fusion and multi-spectral image processing. They will seek resources and partnerships to advance joint OGC test beds, pilot projects, and experiments that address such topics, and they will encourage cooperation between the members of the OGC Working Groups and ISPRS Commissions. "This is an important step forward for the global remote sensing community," explained Mark Reichardt, President and CEO of the OGC. "OGC benefits from the ISPRS's century of industry stewardship and experience. Members and stakeholders of the ISPRS will benefit from closer ties with those who are developing open standards that improve application of diverse technologies for observing and measuring Earth features and phenomena." According to Orhan Altan, president of ISPRS, "The joint activities of OGC and ISPRS will strengthen the ISPRS involvement in standards and interoperability and will allow the ISPRS Working Groups to have input into OGC projects." For information about this announcement, please contact: Lance McKee, Senior Staff Writer, OGC outreach@opengeospatial.org



[Official Maps to Detail Property Information, Costa Rica](#)

Source: <http://www.nacion.com/>

Costa Rica will have digital official maps in which people may view background aerial photographs (Google Earth style), terrain features and measure their properties' land and buildings. They may also browse information specific to farms; for example, its location, value per square

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meter, and surface area. Users may also examine surface water running through their property, electrical connections, if the property is or is not affected by a regulatory plan, if it is located inside a State property area, and all information produced by organizations managing the national territory. This is one of the benefits expected to be delivered by the Program for Cadastre and Registration Regularization <http://www.uecatastro.org/> to be completed by December 2012. But before reaching that date some products or information already finished for certain cantons will be available to the public. This program conducts various projects. The main one is Digital Mapping and Ortho-photography, including maps with their respective images, which will be used as a basis for representing the territorial cadastre. Currently, Costa Rican maps measure around 20% more than the actual available land.

Progress: This project will be completed for 32 counties by December 2010 and for 56 counties by December 2012. Another loan will be negotiated to cover all of the 81 cantons of the country. As of June 30, the program has finished 241,570 farms or properties' maps and images, out of 510,300 comprised by the 32 cantons, said Olman Rojas, the Program Coordinator. So far, the National Register has validated 105,490 properties. Once maps are validated the Program makes public exhibitions in which property owners may review maps and photographs, and indicate whether they have any objections. These exhibitions are held in public places such as libraries by alerting the community in advance. Exhibitions have already been made in Bethlehem, Flores, Santa Bárbara and Santo Domingo de Heredia, in La Unión de Cartago, and Hojancha, in Guanacaste.

Other projects: Another project is the National Territorial Information System (in Spanish SNIT) which seeks data collection and publication from all institutions producing land information that could be included in the above maps, for example, information from the National Emergency Commission (in Spanish CNE), and the municipalities' regulatory plans. This information will cover the entire territory and be available on the web. Within this program is also the SIRI (in Spanish Land Registry Information System), a system where the above maps will be deposited and that is administered by the National Register. Additional work plans include the Value Platform delivered to all 81 municipalities. This platform is an information base that allows municipalities to calculate land value and to conduct effective and efficient real estate tax management. Deputy Minister of Finance, Jenny Phillips, responsible for revenue, explained that the main objective of this program is that people could have legal certainty on their properties. However, the information produced has many applications. For example, there are several products that are being delivered to municipalities for improving tax collection. Information will also serve CNE so that they may learn on impacted areas when facing disasters; and to the private sector, where these databases may influence the housing market.

Talk on Spatial Data Infrastructure of Venezuela

Source: <http://www.gvsig.org/>

A presentation by Jonathan Yajuris, of Venezuela, in the 2nd Latin America and Caribbean gvSIG Working Days, includes topics related to the Spatial Data Infrastructure of Venezuela (in Spanish IDEVEN): institutional framework, technology and data policy; the Venezuelan geoportal project (including architecture and operating software used); and issues on metadata standards. Among



objectives of the IDEVEN discussed are the increasing use of free software Information Technology (IT) within the government sector and organized communities fostering its sovereignty, and the adoption of IT standards in public administration and the organized communities, while democratizing knowledge access. Among benefits of IDEVEN are highlighted the availability of large amounts of integrated geospatial data produced by governmental institutions and communities, a quicker information access and exchange, georeferenced data production costs reduction, and technology and interoperability democratization by using free software and open standards. More information at www.geoportalsb.gob.ve [The full text of the presentation may be viewed at: http://gvsig-desktop.forge.osor.eu/downloads/pub/events/jornadas-lac/2as-jornadas-lac/reports/Geoportal_Nacional.pdf]

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Presentation on the Management of Territorial Ordering Information System, Venezuela

Source: <http://www.gvsig.org/>

A presentation by Jonathan Ochoa, of Venezuela, in the 2nd Latin America and Caribbean gvSIG Working Days, describes the objectives of the Management of Territorial Ordering Information System (in Spanish SIGOT) including serving available environmental information that could support environmental management decision-making while contributing to information production on a common map base, and ensuring environmental data and information exchange for improving this system. The system's goals are to develop, establish and manage the use of geospatial databases at the State Environmental Directions (SIGOT-MINAMB) and to develop a prototype open source software-based online GIS. See <http://www.geoportalsb.gob.ve/SIGOT/sigot> [The full text of the presentation can be viewed at: http://gvsig-desktop.forge.osor.eu/downloads/pub/events/jornadas-lac/2as-jornadas-lac/reports/SIGOT_MinAmbiente.pdf]



Free-software Spatial Data Infrastructure for Military Use, Argentina

Source: <http://www.gvsig.org/>



Proyecto
GnuLinuxmil
SOLIDO SEGURO SOBERANO

A presentation by Miguel Angel Blanco, of Argentina, in the 2nd Latin America and Caribbean gvSIG Working Days, describes the GNU Linuxmil Project of Argentina (www.linuxmil.org or www.linuxmil.org.ar). This is the first regional project of social integration and technology development for dual use (civil and military). The project seeks free software-based application deployment due to benefits in the law, economy, knowledge transfer, and innovation areas. It is stressed that an SDI for military conduction, such as a distributed GIS, is more than a functioning server publishing maps and data: It seeks solutions to planning military conduction, providing a common relative location (grid coordinates/altimetry/geospatial) on everything on the battlefield; geographic information availability for training; and facilitates interoperability and geospatial extension in the specific, joint and combined conduction control, among other important aspects. According to the author, all components of an SDI are needed, but the organization is particularly important because it classifies, regulates, structures and harmonizes everything else. [The full text of the presentation can be viewed at: http://gvsig-desktop.forge.osor.eu/downloads/pub/events/jornadas-lac/2as-jornadas-lac/reports/IDE_Libre_MILITAR.pdf]

IGN Participates in V IDERA Held in Santa Fe, Argentina

Source: <http://www.ign.gob.ar/>



A new step forward was taken to the construction of the Argentinean SDI following the signing of a Memorandum of Understanding for the creation of the Working Platform for Spatial Data Infrastructure of Argentina, in the framework of the V IDERA Working Days. On August 5-6, the Government of the Province of Santa Fe, through the IDESF (Spatial Data Infrastructure of Santa Fe), organized the V Working Days on Spatial Data Infrastructure in Argentina. A large number of attendees participated in those days (more than three hundred), among them agencies that signed the Letter of Agreement of Intent on December 15, 2009 at the National Geographic Institute (in Spanish IGN) headquarters: the National Institute for Statistics and Censuses (in Spanish INDEC), National Commission for Space Activities (in Spanish CONAE), National Institute for Agrarian Technology (in Spanish INTA), and cadastres of the

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Provinces of Formosa and Santa Fe. Moreover, and as part of the scope of IDERA, representatives of different agencies belonging to the provinces of Misiones, Formosa, Chaco, Jujuy, Tucuman, Catamarca, Santiago del Estero, Santa Fe, La Pampa, Mendoza, Neuquén, Santa Cruz, and Córdoba participated in the meeting, with other State agencies such as the Federal Council for Planning and Zoning, among others. One outstanding achievement of this meeting is the achieved consensus on a "Memorandum of Understanding for the Creation of the Working Platform for Spatial Data Infrastructure of Argentina" which was signed by over forty representatives of national, provincial and local organizations, who are progressing efforts to building up the Federal-National SDI that the country needs. This Memorandum of Understanding, in its preface, explicitly encourages the establishment of a Spatial Data Infrastructure for Argentina, entrusting the development of an interoperability platform that facilitates interaction of different actors in these matters (See [Memorandum](#) with list of signatories).

SNIT Invites Participation to its Web 2.0 on Facebook, Chile

Source: Pablo Morales

The National Territorial Information Coordination System of Chile (in Spanish SNIT) invites participation to its social Web [Facebook SNIT](#). This social tool currently has 267 members. These include government officials, academics, industry, universities, professionals and students, all related to geospatial information. Facebook SNIT is systematically publishing various data and information of interest to the national and international geospatial community, and also diffusing activities of the Spatial Data Infrastructure (SDI) of Chile. To be part of this geospatial community please visit the following link and click on the button "I like it" http://www.facebook.com/pages/Santiago-Chile/Snit/288412331120?v=wall&ref=search&_a=5&



COVESIG 2010: Invitation and Final Program, Venezuela

Source: Frank Angulo

I Congreso Venezolano de Sistemas Información Geográfica COVESIG
Auditorium Ali Primera
Universidad de los Andes
Facultad de Ciencias Forestales y Ambientales

The "First Venezuelan Congress of Geographic Information Systems (COVESIG)" will take place from September 29 to October 1, 2010 at the Faculty of Forestry and Environmental Sciences, University of Los Andes, in Mérida, Venezuela. The event will include participation of students, professionals and individuals of different Faculties, Institutes of Higher Education and other national and international organizations. The final program of the conference is available [here](#). For more information, please contact Frank Angulo, Mérida State School of Geography, Chorros de Milla, Ciclo básico, Edif. A, Planta Baja. Phone (58) (0274)7892226 - (0416)1382875 - (0414)7371965 or by e-mail: aseciam@gmail.com

5th Latin American Meeting of Geography Students (ELEG 2010), Ecuador

Source: Javier Nuñez

The 5th Latin American Meeting of Geography Students (ELEG) took place in the city of Quito, Ecuador on August 23-27, 2010. More than 400 geography students from various universities throughout Latin America and the Caribbean participated in the meeting. Various topics related to SDIs were discussed, among them, urban-rural issues in Latin America, Geo ICTs, Environmental Management and Natural Resources, Risk Management, Land Use Planning and Territorial Ordering, and Geographic Identity. Within these themes various presentations addressed SDI construction and applications in Latin America. Contact: eleg.ecuador2010@gmail.com

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First Brazilian gvSIG Working Days: Merge to Grow

Source: Communication gvSIG

First Brazilian gvSIG Working Days [1] will take place on September 22-24, 2010 in Curitiba - PR (Brazil). Under the slogan "Merge to Grow", this event represents the first formal meeting of gvSIG users and developers organized in Brazil. Registration period for this event is now opened. Registration to attending plenary sessions (September 22-24) is free (with limited capacity), and should be done through the registration form from the Conference website [2]. No registrations by e-mail, phone or fax will be accepted. The period for receipt of communication proposals is also opened. All information on ways to participate, as well as submission deadlines is available at the Communications section [3]. Information and Contact: jornadas.brasileiras@gvsig.org

[1] <http://www.gvsig.org/web/community/events/jornadas-brasileiras/2010>

[2] <http://www.gvsig.org/web/community/events/jornadas-brasileiras/2010/Inscricao>

[3] <http://www.gvsig.org/web/community/events/jornadas-brasileiras/2010/Comunicacoes>



ForestSAT 2010 Announcement

Source: The Organizing Committee by way of Santiago Borrero



We are pleased to announce the IV international ForestSat conference: "ForestSat 2010: Operational tools in forestry using remote sensing techniques" organised by the Forest Research (UK) and Land Laboratory (Santiago de Compostela University) which will take place in Lugo (Spain) on the 7th, 8th and 9th of September this year. ForestSAT has attracted a substantial representation from the scientific, industrial and forest management communities from 32 countries. This event stresses the operational applications of remote sensing based technologies in support of forest management. The proposed topics in the programme are a living demonstration of how progress in this field is evolving. Most of them are closely aligned to some of the priority areas defined by the European Union such as Global Monitoring for Environment and Security (GMES), Risk Management, Biomass Assessment, Biodiversity and Forest Inventory. Other topics are associated with international efforts like the United Nations Collaborative Programme on Reducing Emissions from Deforestation and Forest Degradation in Developing Countries (UN-REDD) or the Global Earth Observation System of Systems (GEOSS). The rest are national initiatives such as mapping of vegetation types, biomass estimation, monitoring of changes, forest planning and mapping biodiversity. For further information about ForestSat 2010, please consult the official conference website: <http://forestsat2010.usc.es>

2nd Latin American and Caribbean gvSIG Working Days: Papers and Articles

Source: Javier Nuñez

Is now available the presentations, seminars and papers offered in the 2nd Latin American and Caribbean gvSIG Conference [1], which under the slogan "Uniting the world's people" were attended by more than 700 people, from more than 10 countries. Recordings of presentations are also available at the same website.

[1] <http://www.gvsig.org/web/community/events/jornadas-lac/2010/ponencias>

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[ESRI UC Proceedings Now Online](#)

Source: <http://gislounge.com/>



Presentations from the [2010 ESRI User Conference are now online](#). The site lists 1,057 presentation abstracts and select slide and paper presentations. Clicking on the presentation title accesses the abstract. If there is a powerpoint or paper available, then a paper link option is listed in the documents section. If you want the recordings of the plenary and technical sessions then you will need to [order those on DVD](#).

[International Conference on Spatial Data Infrastructures 2010, Macedonia](#)

Source: Arturo Brun-Martinez

It will be held from 15th to 17th September 2010 at Fon University in Skopje, Republic of Macedonia. The main theme of the Conference will be the development and use of Spatial Data Infrastructures (SDI's) and all their aspects – technology, criteria and standards for organizing and sharing spatial data. The realization of the European INSPIRE directive (Infrastructure for Spatial Information in Europe) in the countries of South East Europe is expected to be an important part of the conference. The ambition of the conference is to become the major SDI conference in the region and be influential for SDI development. Contact: Prof.Dr.sc. Bashkim IDRIZI e-mail: bashkim.idrizi@unite.edu.mk

[25th Conference of the International Cartographic Association and 15th General Assembly of the ICA](#)

Source: <http://www.icc2011.fr/>



In 2011, France will host the 25th Conference of the International Cartographic Association (ICA), marking the fiftieth anniversary of the first General Assembly of the Organization. During these fifty years, the ICA has skilfully remained true to its two fundamental objectives, namely, to maintain its position as the benchmark international conference for cartography and geomatics, thanks to its solid and progressively updated scientific content, whilst remaining a conference which is open to a variety of participating groups: researchers, decision-makers in the field of geomatics, teachers and lovers of cartography. Papers submission deadline: **October 4, 2010**. Contact: regist-icc2011@europa-organisation.com

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Articles and Publications of the Month

SERVIR Publishes Satellite-Based Study of Deforestation in Belize

Source: Emil A. Cherrington

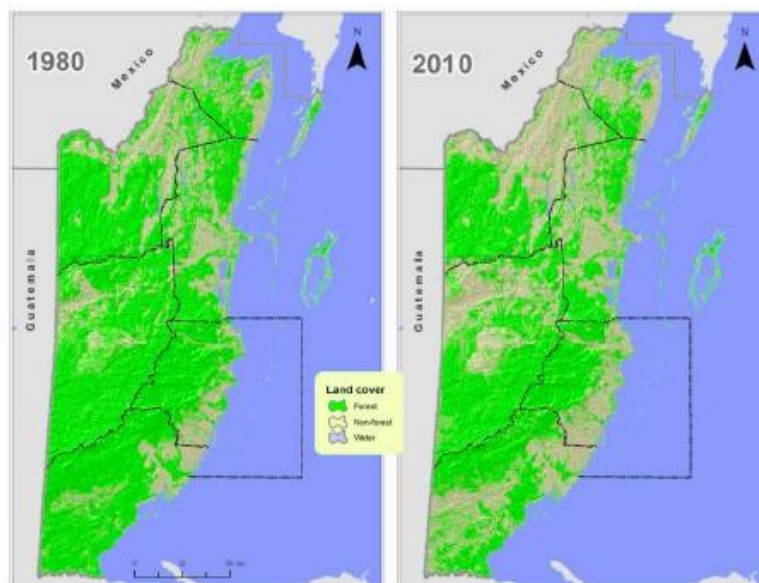


Figure 6: Forest cover, 1980 and 2010

In collaboration with Belize's Ministry of Natural Resources and the Environment in the context of SERVIR, the Water Center for the Humid Tropics of Latin America and the Caribbean (in Spanish CATHALAC) and NASA recently completed a United States Agency for International Development (USAID)-supported thirty-year study of forest cover change and deforestation in Central America's northernmost nation. Based on analysis of Landsat satellite imagery for 1980, 1989, 1994, 2000, 2004, and 2010, the validated, national-level assessment indicates that Belize's forest cover has declined from 75.9% in 1980 to 62.7% in 2010. Average annual deforestation was estimated at 0.6%, equaling the clearing of some 24,835 acres (9,982 hectares) of forest per year. With a short turn-around time between image acquisition and the production of the forest cover data, the study demonstrates SERVIR's capacities for rapidly converting satellite data into information. The information developed is intended to be of use as an input to processes ranging from the Reducing Emissions from Deforestation & Forest Degradation (REDD) initiative to Belize's reporting in the context of the United Nations Millennium Development Goals. An electronic copy of the study can be found online at: http://www.servir.net/servir_bz_forest_cover_1980-2010.pdf.

Danish Data Sharing Study

Source: Douglas D. Nebert

Danish Enterprise and Construction Authority (DECA), has now published an analysis of the social and economic benefits associated with the decision in 2002 to provide the official Danish address data "free of charge" for public as well as commercial re-use. The main conclusion of the study is that the direct financial benefits from the agreement for society in the period 2005-2009 amount to around EUR 62 million (~DKK 471 million). Until 2009 the total costs of the agreement has been around EUR 2 million. In 2010 it is estimated that social benefits from the agreement will be about EUR 14 million, while costs will total about EUR 0.2 million. An 8-page memo presenting the study and the results is published in Danish and English at the website www.adresse-info.dk – by these direct links:
(Danish): http://www.adresse-info.dk/Portals/2/Benefit/Vaerdien_af_danske_adressedata_2010-07-071.pdf

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(English): http://www.adresse-info.dk/Portals/2/Benefit/Value_Assessment_Danish_Address_Data_UK_2010-07-07b.pdf. News on the analysis has also been published on the European "ePSIPlatform" here: http://www.epsiplatform.eu/news/news/value_of_danish_address_data

Improving SDI Geoportal Accessibility - SNIG Example

Paper presented by Rui Pedro Juliao, Portugal, in the Spatial Data Infrastructure Track of ESRI International Users Conference 2010, July 8-10, San Diego, California.

Abstract by the author

Portugal was one of the SDI pioneers in the beginning of the 90's, but after a quick start the project slowed down. Sometimes, small countries do not have the same strength, resources and opportunities of larger nations. Now SNIG project (NSDI of Portugal) is regaining its position and in the paper I will present how a small country can develop a SDI project, INSPIRE oriented and truly useful for public administration and citizens. The paper will focus on describing the SNIG Project (<http://snig.igeo.pt/portal/>), referring to key issues like strategy, resources, results and future expectations. A special focus will be made on the improvements made using GPTK as the geoportal support. [The complete paper may be found at: http://proceedings.esri.com/library/userconf/proc10/UC/papers/pap_1182.pdf]



Integrating Regional Geoportals Within a Web CMS Framework

Paper presented by John Gitau (Kenya) and Carlos Grant (Panama), in the Spatial Data Infrastructure Track of ESRI International Users Conference 2010, July 8-10, San Diego, California.

Abstract by the authors

SERVIR is an international collaboration sponsored by NASA and the United States Agency for International Development (USAID) to provide solutions for environmental monitoring and decision support in developing regions around the world, using satellite remote sensing and other geospatial data. SERVIR acquires and integrates data sets from a variety of heterogeneous sources, performs or facilitates their analysis, and provides decision-makers with a user-friendly, synthesized view of their region to help them deal with important issues affecting their people and the environment. One of the key challenges is helping the target user communities effectively find and make use of a growing volume and variety of data, information, and services. This paper highlights the efforts of developers at the SERVIR Regional Nodes in East Africa and Mesoamerica to leverage the customization capabilities of the ArcGIS Geoportal Extension (version 9.3.1) to achieve "one-stop" consolidation of spatial data resources with web content managed by a .NET Web CMS framework (DotNetNuke). [The complete paper may be found at: http://proceedings.esri.com/library/userconf/proc10/UC/papers/pap_1494.pdf]

Ordnance Survey Launches OS Insider Newsletter

Source: <http://www.ordnancesurvey.co.uk/>

Keeping up to date with news from Ordnance Survey (Great Britain's national mapping agency) has just got easier with the launch of a new online newsletter, *OS Insider*. *OS Insider* is the brand new newsletter highlighting some of the projects currently being worked on at Ordnance Survey. Available on the Ordnance Survey blog, it has been created to keep you informed about everything that is happening inside Great Britain's



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national mapping agency. The first edition of *OS Insider* focuses on some of the innovative uses of Ordnance Survey data, including through OS OpenData, OS OpenSpace and the GeoVation awards programme. However, *OS Insider* is not just a reflection of Ordnance Survey news – ideas for future topics can be emailed to the editor at osinsider@ordnancesurvey.co.uk. View OS Insider at <http://www.ordnancesurvey.co.uk/oswebsite/aboutus/reports/osinsider/D07298OSInsider1.pdf>

National Climate Assessment e-Newsletter (First Edition)

Source: Rinku Roy Chowdhury

U.S. Global Change Research Program (USGCRP) has published the National Climate Assessment e-Newsletter (First Edition): <http://www.disccrs.org/sites/default/files/aug23NewsletterUSGCRP.pdf>

To receive this newsletter please contact engagement@usgcrp.gov and ask to subscribe

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Geospatial Research and Applications

Mexico Indigena Online GIS

Source: Kate Lance

The Mexico Indigena (MI) team has made a significant portion of its GIS database available to the public through the web (<http://web.ku.edu/~mexind/gis.htm>), through two innovative techniques. With the first technique, Google Earth's KML filetype, they draped Huasteca and Yagila community map on the Google Earth terrain. With the second technique, SVG, they created a true online GIS, where most data from all three study areas, as well as national data, may be explored and queried by anyone with internet access. The México Indigena team processes most of the data it collects into geographic shapefiles with attribute tables. Some shapefiles began as existing National Institute of Statistics and Geography (in Spanish INEGI) data layers, which MI extends and corrects through participatory mapping. Other shapefiles, such as community and some property boundaries, are created from archival research, mainly at RAN offices. MI's methodology employs (1) archival research, (2) traditional field research, and (3) participatory research data collection methods. The three approaches worked well together and no single one would have given as complete a picture as the combined view. More information at: <http://web.ku.edu/~mexind/gis.htm>



Ministry of Health Published Interactive Atlas on Epidemiological Situation, Chile

Source: <http://snitchile.blogspot.com/>



interesting Atlas by clicking on this link: http://epi.minsal.gov.cl/epi/html/AtlasInteractivos/Atlas_BEM85/atlas.html

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[Archaeological Sites Registration System Began Operation, Chile](#)

Source: <http://www.snit.cl/>



The first week of August was launched the system for recording archaeological sites throughout the country using *Situs* software, -downloadable from the Internet-, which becomes a decisive step towards the national heritage preservation. On July 9, 2010 it was released the first version of "Minimum Standards for Archaeological Heritage Register", during a ceremony which brought together representatives of the Directorate of Libraries, Archives and Museums (in Spanish DIBAM), National Monuments Council and the SNIT. On August 3, the system for recording archaeological sites throughout the country using *Situs* software began operation. This system, which is part of the Heritage Area activities within SNIT, will enable the scientific community information registration using a geo-referenced standard. This will facilitate key data collection for future conservation and that any proposed action involving soil and/or the underground, shall be confronted with the register contents, thus

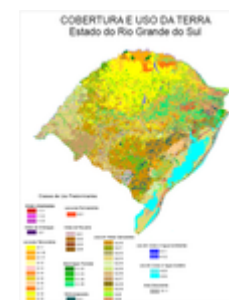
avoiding damage to archaeological sites recognized and incorporated into this cadastre, situation that most of the time is irreversible. The idea is to incorporate into this cadastre the archaeological sites published or reported until 2010 in a span of five years, through support of various public and private organizations. During the trial run of this software, its performance will be monitored so that its final version will better respond to the needs of the Monuments Council, the community of archaeologists and other institutions with responsibilities in the area. It should be noted that *Situs* software and the registration standards completed in version 1.0, are the result of a coordinated effort between the National Center for Conservation and Restoration and the National Monuments Council, which contributed a significant group of archaeologists, geographers, cartographers, conservators and other professionals, including representatives of the Chilean Society of Archaeology (SCHA), and the Documentation Center of Patrimonial Assets of DIBAM, through the Heritage Area of the National Territorial Information System (in Spanish SNIT). More information on [Situs Software](#)

[IBGE Launches Report and Map on Land Use in Rio Grande do Sul](#)

Source: <http://www.ibge.gov.br/>

This richly illustrated publication, presents maps and analysis of land use characteristics and processes in the state of Rio Grande do Sul. The study reveals that 46% of the land is in use by Gaucho cattle industry, and 29%, by associated with plantations. Likewise, forest cover which is mainly associated with diverse crops of small producers, represents around 14% of the land occupation. Moreover, uses on areas covered by water such as ponds, represent about 7% of the total usage. The launch of the *Land Use Report and Map of Rio Grande do Sul* took place on August 12, at IBGE's offices in Rio Grande do Sul. Study results on land use in the Brazilian territory, conducted by the Brazilian Institute of Geography and Statistics (in Portuguese IBGE) are fundamental in the analysis of environmental quality and socio-environmental sustainability for public and private planning, the academic community, and the society in general. The report may be accessed at IBGE's site at:

ftp://geoftp.ibge.gov.br/documentos/recursosnaturais/usodaterra/usoterra_RS.pdf. The map at scale of 1:1 million may be viewed at: ftp://geoftp.ibge.gov.br/mapas/tematicos/tematico_estadual/RS_uso.pdf. Study results are organized into six chapters; three of them are on the report and two on thematic analyses. In the structure, besides methodological procedures, it is presented a retrospective on different occupation moments, from Indigenous, through the Spanish and Portuguese, which preceded the period of colonization by Germans and Italians, among other Europeans, and the role of each historical for current social, economic and cultural state configurations. Within thematic analyses, land use maps are described, together with analysis categories included in the adopted Land Use Classification System. The



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structure was organized into six categories: Anthropogenic areas, or occupied by man, not Agriculture, Agricultural Anthropogenic Areas, Natural Vegetation Areas, Water, and Other Areas. The publication includes tables, figures and photographs.

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GIS Tools, Software, Data

SWAMI 3: New Metadata Management Tool launched

Source: Milton R. Medina



The Geographic Institute “Agustin Codazzi” of Colombia (in Spanish IGAC), in its ongoing bid to generate technological innovation processes, presents the new available open source software-based version of the Institutional Metadata Management Web System 3.0 (in Spanish SWAMI). This tool will drive achievement of the Colombian Spatial Data Infrastructure’s (in Spanish ICDE <http://www.icde.org>) objectives facilitating geographic information access and use. SWAMI 3.0 is a tool that conforms to international standards in terms of national

(NTC 4611) and international documentation standards (ISO 19115 and ISO 19139), with which it is now possible to use different standard catalog services (OGC Catalogue Service For Web CSW), and may also act as a Colombian Spatial Data Infrastructure (in Spanish ICDE) node, by consolidating the National Spatial Data Directory. It also offers a georeferenced viewer, geographical area visualization box (bounding box), graphics sample loading, report generation, use Google Maps to display information, and has the ability to build extensions under the Colombian Technical Standard NTC 4611, second update. The application of this tool promotes the use of geospatial data standards and helps define policies for managing online geographic information, as a contribution to developing different SDI stages. The system has dynamic applications, capture, editing, and validation modules and administration configuration options for managing thematic profiles and conformance levels of NTC 4611. In this way, this is a significant milestone in the establishment of the national SDI through technological processes and knowledge transfer to all institutions involved with geographic information. The official launch of the system was on August 12, 2010 at the IGAC, and included presentation of the tool’s features, installation technical and technological requirements, software licensing conditions, and distribution and delivery procedures.

New Release of Opensource Application ServiceCube

Source: Rocío Recio and F.Javier Zarazaga-Soria by way of Douglas D. Nebert and Santiago Borrero



We proudly announce that the new application ServiceCube is officially available under an open source license. ServiceCube is the new name for the software formerly known as CatMDServices. It is an initiative of the National Geographic Institute of Spain (in Spanish IGN), which is the result of the scientific and technical collaboration between IGN and the Advanced Information Systems Group (IAAA) of the University of Zaragoza with the technical support of GeoSpatiumLab (GSL). ServiceCube is a Web application for describing and searching web services by means of metadata. The tool has been implemented with J2EE and GWT technology and has the following features:

- Multi-platform (Windows, Unix). As it has been developed with J2EE and the storage of metadata records is managed directly through the file system, the application can be deployed in any platform with the requirements of having installed Tomcat and a Java virtual machine. On the client side users only need a web browser with Javascript support.

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- Multilingual. The application has been developed following the Java internationalization methodology. Nowadays, there is support for Spanish, English, French, Portuguese, Catalan, Galician and the Basque language. With little effort, other languages can be supported.
- Description of services by means of metadata in compliance with the metadata implementing rules of the INSPIRE directive. The metadata model proposed follows the guidelines for mapping the metadata implementing rules to ISO 19115/19119.
- Web services searching of metadata stored in the local metadata repository according to different criteria such as the geographic extension of the data provided by the service, the keywords, the service type or the services provider.
- Automatic metadata generation from the "getCapabilities" operation supported by a service that complies with the OGC Specifications (WMS, CSW, WFS, WCS or WPS).
- Thesaurus and controlled list utilities to facilitate the edition of metadata. This enables metadata creators to use them in order to fill in some metadata elements. The use of controlled keywords facilitates the mapping between a selected vocabulary and a large collection of records.
- On-line help.

ServiceCube can be downloaded from Sourceforge at the following web site:

<http://spatiumcube.sourceforge.net/components.html>

New release of CatMDEdit is officially available under an open source license. CatMDEdit is a metadata editor tool that facilitates the documentation of resources, with special focus on the description of geographic information resources. New application ServiceCube (as part of the SpatiumCube project) is officially available under an open source license. ServiceCube is a Web application for describing and searching web services by means of metadata. Additional details at <http://webdiis.unizar.es/IAAA/>

The IABIN and TNC Debut New Online Ecosystem Assessment Tool

Source: Access newsletter, Volume 13, Number 3, September 2010



The Nature Conservancy (TNC) and the Inter-American Biodiversity Information Network (IABIN) recently launched the Ecosystem Analysis and Reporting (EAR) tool to visualize ecosystem status and threats in the Americas. The tool is available in both browser-based and ARC desktop-based formats (with English and Spanish user manuals) at <http://gg.usm.edu/EAR/>. The design and development of the tool was executed by TNC's Caribbean Science Program, working closely with the Department of Geography and Geology at the University of Southern Mississippi. This tool builds on the information made available through IABIN's Ecosystems and Protected Areas Thematic Networks by providing conservation decision makers with products for assessing the extent of ecosystems under effective conservation, and offering direction on where to work and what actions may be needed to improve biodiversity conservation. The tool currently includes data from two pilot regions: the Mesoamerican Reef (in Belize and the Yucatan Peninsula) and the Northern Andes of Colombia, Peru, and Ecuador. TNC led a presentation and workshop utilizing the tool at the Society for Conservation GIS meeting in Monterey, CA, in July and will also present the tool at upcoming IABIN meetings. This tool is the first in a series of five planned "value-added products for decision makers" that IABIN is developing with funds from the Global Environment Facility (GEF). Future tools will integrate additional

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types of data IABIN has digitized and made available through its GEF project and related activities. The tools will make this data available in more user-friendly and interactive formats, and will also allow select conservation-focused analyses to be performed utilizing this data. For further information, please contact Ben Wheeler at bwheeler@usgs.gov

[OpenDragon Geoinformatics Open Source](#)

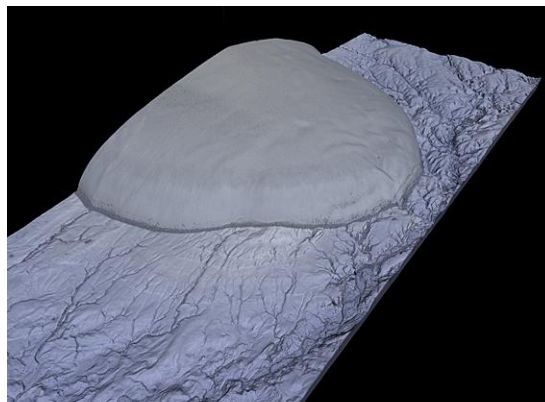
Source: <http://www.gim-international.com/>

The Global Software Institute (GSI)'s OpenDragon is available for free download by users anywhere in the world. OpenDragon offers a full suite of image analysis and raster GIS capabilities including image enhancement, supervised and unsupervised classification, geometric correction, measurement and statistics, vector capture and display, slope, aspect and buffer calculations and multi-criterion decision making. OpenDragon also includes the OpenDragon Toolkit, which allows users who can program in C to extend the software functionality. GSI will also make the source code for OpenDragon available for non-commercial use under an Open Source license during the next six to nine months. OpenDragon is a free offshoot of the commercial Dragon/ips(r) system from Goldin-Rudahl Systems, Inc. OpenDragon is fully internationalised. The current system provides Thai, Czech, French, Russian, Bahasa Indonesian and Brazilian Portuguese interfaces. GSI will gladly cooperate with any organization wishing to translate the software into other languages. Users interested in [downloading OpenDragon](#) should visit the dedicated website.

[TanDEM-X Delivers First 3D Images](#)

Source: <http://www.dlr.de/>

On 22 July 2010, researchers at the German Aerospace Center (Deutsches Zentrum für Luft- und Raumfahrt; DLR) facility in Oberpfaffenhofen published the first 3D images from the TanDEM-X satellite mission. Just one month after the launch of TanDEM-X (TerraSAR-X add-on for Digital Elevation Measurement), which took place on 21 June 2010, DLR researchers have created the first digital elevation model – almost a week ahead of schedule. A group of Russian islands in the Arctic Ocean was selected for the first test. This first elevation model shows amazing views of the icy Russian October Revolution Island, the largest island of the Severnaya Zemlya group. Details such as the height of the glaciers and individual moving ice sheets have never before been measured from space with a precision of a few centimeters. In addition, the height of a vast ice cap in the centre of the island is mapped accurately. Until now, there has been no data of this quality about this strange world. The Shuttle Radar Topography Mission, the international mission by NASA, DLR and other space agencies that flew in 2000, could not observe these polar regions – they are very important for climate research. In order for 3D images and elevation models to be obtained, TanDEM-X must fly in close formation with its twin satellite, TerraSAR-X, which has been in orbit since 2007. This way, the two satellites can image the same regions of Earth's surface from different viewing angles. Close formation flying is yet to be achieved. Nevertheless, DLR researchers were able to generate the first 3D images by waiting for the optimum time when the two satellites –in their near-polar orbits– were very close together. The ground tracks –the orbits of the two satellites projected onto the Earth's surface– cross at the North Pole. When both satellites fly over this imaginary intersection at slightly different times, they come close to one another. On 16 July 2010, the researchers used this special arrangement and generated the first elevation model with the satellites 370 kilometers apart. The first successful experiment is the starting point for more 3D images. In the meantime, the distance between TerraSAR-X and TanDEM-X has been reduced to 20 kilometers and this will be maintained for the next few months. Extensive system tests and calibration activities will be carried out during this time. Close formation flying will begin in the autumn of 2010. The distance between the two satellites will first be brought to 500 meters and then, for the period during which the elevation models are being recorded, it will be reduced to 200 meters.



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[LDEO Database Version 2009 now Available from CDIAC](#)

Source: Arturo Brun-Martinez



The Lamont-Doherty Earth Observatory (LDEO) database is now available at http://cdiac.ornl.gov/oceans/LDEO_Underway_Database/ Approximately 4.75 million measurements of surface water partial pressure of CO₂ obtained over the global oceans during 1968-2009 are listed.

[Blueprint for Creating an Open Source Web Map](#)

Source: <http://blog.geoserver.org/>

Community member Michelle Ballinger has put together a short tutorial on creating an open source web map using GeoServer.

This tutorial is designed for a beginner and is easy to follow. The steps she uses are:

1. Creating and editing data with QGIS
2. Designing SLDs with uDig
3. Serving maps with GeoServer
4. Creating a custom OpenLayers application
5. Posting to the web

The introduction mentions the benefits of using open source and also, interestingly, discusses the pros and cons of making a “mash-up” versus serving one’s own data.

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Training Opportunities

[Open Registration for Graduate Courses at INPE, Brazil](#)

Source: <http://www.inpe.br/>



Until **October 31**, enrollment for graduate studies at the National Institute for Space Research (INPE), Brazil is opened. Graduate courses at INPE were introduced gradually from 1968 with the purpose of training highly qualified human resources on the Institute’s activity areas, because of the lack or inadequacy of institutions generating knowledge in these areas in the country. Maximum duration of the Master Course is 3 years, while the Ph.D. is five years. The Institute offers the following graduate courses: Astrophysics, Engineering and Space Technology, Space Geophysics, Applied Computing, Meteorology and Remote Sensing. Registration for graduate courses is opened from July to October each year.

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[Online Master's Degree & Graduate Certificate in Geographic Information Systems, University of Denver](http://www.universitycollege.denver.edu/)

Source: <http://www.universitycollege.denver.edu/>

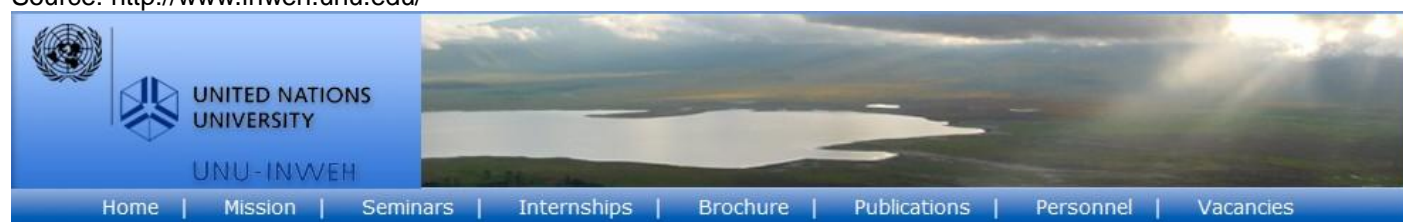
The University of Denver's school of professional and continuing studies, University College, and the Department of Geography are partnering to offer an online Master of Science in Geographic Information Science delivered entirely online for working adults. Additionally, University College offers a certificate of advanced study in GIS both online and on campus. The University of Denver's [GIS program](#) prepares students to become leading GIS professionals in numerous industries.

 UNIVERSITY OF DENVER



[United Nations University Diploma in Integrated Water Resources Management](http://www.inweh.unu.edu/)

Source: <http://www.inweh.unu.edu/>



The United Nations University International Network on Water, Environment and Health (UNU-INWEH) in partnership with the UN Department of Economic and Social Affairs (DESA) has developed a distance learning program in Integrated Water Resources Management. The long-term goal of the Water Virtual Learning Center (WVLC) is to enhance national capacities for the development and implementation of sustainable water strategies in developing countries, at local, regional, sub-regional and basin scales. The program is directed to practicing professionals in the water sector wishing to upgrade their knowledge of modern water management concepts and practices. The WVLC promotes sustainable water management through a core curriculum on Integrated Water Resources Management (IWRM) that offers opportunities for continuing education and skills upgrading. This training and capacity-development programme is administered and executed via a regional network of training institutions and universities, supported by a core Website, which collectively serve as a "virtual" learning centre. The curriculum offers broad-based coverage of the principles and practices of IWRM, providing the students with core knowledge in the natural sciences, engineering, health, governance, public administration, social sciences, economics, resource conservation, strategic planning, as well as aspects of program and project management. The curriculum consists of 10 courses of 25 teaching hours equivalent per course with tutorial and case study material along with independent work assignments and examinations. A UNU diploma is granted after the completion of all ten courses. For further information, please contact Colin Mayfield at: mayfield@sciborg.uwaterloo.ca

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Funding Opportunities, Awards, Support

Call for Applications: ICSU Grants Programme 2011

Source : <http://www.icsu.org/>

Applications are invited for the 2011 International Council for Science (ICSU) Grants Programme. Please note the Grants Programme is strictly reserved for ICSU Members and bodies. Lead Applicants must be ICSU Scientific Unions, Interdisciplinary Bodies or Joint Initiatives. The Programme Statement and Schedule, as well as the application form are available in the [Member Zone](#). The deadline for receipt of applications is **1 December 2010**.

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[IAI Training Opportunity: Urban Responses to Climate Change in Latin America and the Caribbean](#)

Source: Kenneth Young



Urbanization and Global
Environmental Change
AN IHDP CORE PROJECT

IAI and CEPAL are pleased to announce a joint international course on Urban Responses to Climate Change in Latin America and the Caribbean to be held 1-6 November, 2010 in Santiago, Chile. The convergence of the effects of urbanization and climate change are posing both challenges and opportunities for society in the 21st century. The Inter-American Institute for Global Change Research (IAI) and the U.N. Economic Commission for Latin America and Caribbean (ECLAC) seek to contribute to building local responses to climate change in urban areas of Latin America & Caribbean. This training workshop is an effort to assist urban planners, decision-makers, and stakeholders to prepare better responses to climate change. Its main objective is to expand the knowledge and understanding of how urban areas are driving but also may respond to climate change and integrate those responses with their current and future urban development. A limited number of travel grants will be available for selected participants. Priority will be given to professionals from IAI member countries (see <http://www.iai.int>). Applications should be submitted on-line at: <http://iaibr1.iai.int/TrainingOpportunities/IAIcitiesresponse2010T1>. Application deadline: **September 12th, 2010, 23:00hs** Sao Paulo, Brazil. Applications submitted after this deadline or incomplete will not be considered. Detailed information [here](#).

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Employment Opportunities

[Job Offers in the Region of Valparaíso, Chile](#)

Source: <http://snitchile.blogspot.com/>

The Unit for Land Information Management (UGIT), Ministry of Housing and Urban Development (MINVU) of the Valparaiso Region, Chile, reports that the Ministerial Secretariat (SEREMI) in the same region needs to recruit the following professionals:

- A Google Maps API Web developer whose mission is the development of a thematic mapping Web viewer.
- An statistician, for advising the regional computer program teams "Campamentos" y "Quiero Mi barrio" in the preparation of reports, geographic data processing, indicators design and multi-criteria analysis.

Please send your background and inquiries to: Luz Maria Perez lperez@minvu.cl



Tenure-track assistant professor with a research specialization in GIScience, University of Texas at Austin

Source: Kenneth Young

The University of Texas at Austin. The Department of Geography and the Environment invites applications for a tenure-track assistant professor to begin in Fall 2011, with a research specialization in GIScience. seeking a hire who would help build on our traditions of fieldwork in international contexts, who would strengthen a long-standing human-environment emphasis or new environmental efforts (including a B.S. degree in environmental science), and/or who would enrich a large urban studies program run by the department. Applicants should have the PhD in hand or expected by August 2011 and evidence of excellence in both scholarship and teaching. The successful candidate should be willing and able to teach our introductory GIS course (Environmental Geographic Information Systems) with

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interest and passion. The person hired also would be expected to teach an advanced GISc undergraduate course and a graduate seminar in her/his area of particular expertise. In addition, the candidate would also be expected to develop a strong research program, direct graduate research, demonstrate evidence of successful research productivity, and exhibit a commitment to service to the department, college, and university. There are many on-campus resources and possibilities for collaboration, including through the Center for Space Research, the Environmental Science Institute, the Population Research Center, and the Teresa Lozano Long Institute of Latin American Studies. In addition, Austin is home to many government agencies and other organizations interested in the use of digital geographic information. Information on the Department of Geography and the Environment at <http://www.utexas.edu/cola/depts/geography/>. Send letter of application with a statement on teaching and research goals, curriculum vitae, copies of publications and evidence of ability to acquire external research funding, and three letters of reference to: Kenneth R. Young, Chair, Department of Geography and the Environment, University of Texas, Austin, TX 78712. Applications will begin being reviewed on **October 11**, 2010 and will continue until position is filled. Background check conducted on applicant selected. The University of Texas at Austin is an Affirmative Action/Equal Opportunity Employer.

DEPARTMENT OF GEOGRAPHY AND THE ENVIRONMENT



Post-doctoral Research Associate in Ecosystem Services and Poverty Alleviation, University of Edinburgh

Source: DISCCRS News, August 23, 2010



WORKING AT THE UNIVERSITY	CITY OF EDINBURGH	VACANCIES	HOW TO APPLY	CONTACT US

University of Edinburgh, Scotland seeks a highly motivated and imaginative individual for a 12-month position to work in a team developing the Ecosystem Services and Poverty Alleviation (ESPA) framework. This multidisciplinary research project, jointly funded by the Natural Environment Research Council (NERC), the UK Department for International Development (DFID) and the Economic and Social Research Council (ESRC), aims to address both the knowledge gap relating to the drivers for sustainability and the challenge of delivering poverty reduction from ecosystem services. You will have a PhD in a social or physical science discipline with strong emphasis on ecosystems science, economics and/or international development. Some experience in the representation of complex systems would be highly desirable. More details can be found at: <https://www.jobs.ed.ac.uk> or by contacting Dr. Genevieve Patenaude at genevieve.patenaude@ed.ac.uk

Global Spatial Data Infrastructure Latin America and the Caribbean Newsletter

[Postdoctoral Research Fellow Position on Lidar Analysis](#)

Source: <http://www.geographyjobs.com/>

University of California at Berkeley (UC Berkeley). Analysis of Lidar data for forest management and research. Research focuses on forest ecology, fire, biogeography, ecosystem modeling, and geographic information systems. With small footprint Lidar data we are measuring key forest parameters including canopy base height, canopy height, canopy cover, etc. to be used in fire spread models, ecosystem models and habitat suitability models, based in 2 study areas in the Sierra Nevada. Requirements: Writing peer-review manuscripts and presenting the work at a regional or national meeting is an expectation of any successful candidate. Applicants should have a working understanding of Lidar data, spatial analysis, remote sensing, ecosystem modeling, GPS and GIS. Some field work will be required. Experience with an advanced programming language and statistical packages such as R is desired. A completed PhD degree in Geography, Forestry or related field is required. Salary is US\$41,500 per year, plus a generous benefits package. This position will continue with annual reviews, dependent on funding. To apply: send a letter of interest that addresses the qualifications listed above, digital copies of relevant publications, a curriculum vitae, and names and contact information for three references to Maggi Kelly. Please put Lidar Postdoc Inquiry in the subject line. Apply for this job via e-mail: maggi.kelly@gmail.com

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Other

[Brazil will Host the World Congress of Statistics in 2015](#)

Source: <http://www.ibge.gov.br/>



IBGE (Brazilian Institute of Geography and Statistics) will host the second half of 2015, the 60th World Congress of Statistics, organized by the International Statistical Institute (International Statistical Institute, or ISI, <http://www.isi-web.org/>), a scientific organization founded in 1885 and headquartered in The Hague, Netherlands. The organization is currently comprised of approximately 2,000 members internationally recognized in the field of statistics from more than 130 countries. For the Congress, are expected about 4,000 participants, including representatives of official statistical institutes around the world and experts from related areas such as demographers, economists, social scientists, among others. This event is to discuss theoretical advances and best statistical practices in different countries. In the last Congress (<http://www.statssa.gov.za/isi2009/>) conducted in 2009 in Durban, South Africa, Brazil was represented by President of IBGE, Eduardo Pereira Nunes, and several other representatives of the Brazilian Institute of Statistics and Universities. The Congress theme was Statistics: our past, present and future. Over a hundred sessions were conducted and selected more than one hundred articles, presented in thematic tables, plus nearly a thousand abstracts. It was the first time in 124 years of history, that the meeting was promoted in sub-Saharan Africa. Held every two years, the next Congress will be in Ireland (2011) and Hong Kong (2013). Next year, the event (<http://www.isi2011.ie/content/>) which will be in Dublin between 21 and 26 August, is innovative in the discussion of the so-called "day's theme" in which all work will refer to water quality and quantity. The Congress promises to gather statistics for the entire disciplinary spectrum: official statistics and survey sampling, computational and mathematical statistics, probability and stochastic modeling and education. The World Congresses of Statistics are important for all statistical areas to identify new research topics in academic and official statistics.

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[Why Antarctic Sea Ice Is Growing in a Warmer World](#)

Source: <http://news.nationalgeographic.com/>

Models solve mystery, but suggest South Pole sea ice melt will soon accelerate. Satellite data show that, over the past 30 years, Arctic sea ice has declined while Antarctic sea ice has mysteriously expanded,

according to study leader Jiping Liu, a research scientist at Georgia Tech in Atlanta. The new analyses are based on climate models and sea-surface temperature and precipitation observations from 1950 to 2009. They show that, in the 20th century, ocean warming boosted precipitation in the upper atmosphere over the Antarctic region, which fell as snow. The data show that Antarctic sea ice growth in the 20th century might be mostly dictated by natural processes, Liu noted. But that won't be the case for the 21st century, since human-caused global warming is predicted to dominate the Antarctic climate and trigger faster melting of sea ice, he said. As increasing greenhouse gases continue to warm the oceans off Antarctica, more Antarctic precipitation will turn to rain, which rapidly melts snow and ice, according to the study, published this week in the journal *Proceedings of the National Academy of Sciences*. The oceans off Antarctica include Earth's coldest, densest water, which is one of the "dominant driving forces" for the ocean's global conveyor belt, a circulation pattern that provides nutrients for up to three-quarters of marine life.

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Americas: Conferences, SDI Events

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SEPTEMBER 2010		
1-3	Río Gallegos, Santa Cruz, Argentina	IV Regional Working Days on Geographical Information and Land Management (IVJIGOT)
6-10	Bogota, Colombia	International Seminar on Biodiversity, Environment and Geo-sciences (Co-sponsored by FIG)
6-11	Bogota, Colombia	Cadastral Week
8-10	Bogota, Colombia	7th National SELPER Seminar and 2nd ICG International Seminar
9-10	Philadelphia PA, USA	MAPublisher Training
9-10	West Palm Beach FL, USA	17th Annual South Florida GIS Expo
NEW		
12-14	Washington DC, USA	IMTA (AMERICAS) Conference & Trade Show 2010
12-16	Vancouver BC, Canada	15th International Union of Air Pollution Prevention and Environmental Protection Association's World Clean Air Congress: Achieving Environmental Sustainability in a Resource Hungry World
12-16	Minneapolis MN, USA	National States Geographic Information Council (NSGIC) Annual Conference
13-16	Santa Maria RS, Brazil	3rd Geomatics Week - The Geo-environment in which we live: State of the art and perspectives
14-16	Río de Janeiro (RJ), Brazil	Second Meeting of Bachelors in Geography
NEW		
14-15	San Jose CA, USA	The Location Business Summit USA
NEW		
14-17	Loveland CO, USA	GIS in the Rockies 2010
15-17	Tocantins, Brazil	X Geographic Meeting of Tocantins
15-17	Columbus OH, USA	2010 Ohio GIS Conference
16-17	Edmonton AB, Canada	ESRI Regional User Conference

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16-18	San José, Costa Rica	11th International Congress on Geomatics: Geodesy and Topography in Real Time
19	Seattle WA, USA	GEOSS Workshop XXXVIII: Evolution of Ocean Observing Systems – Building an Infrastructure for Science
19	Seattle WA, USA	Oceans 2010
19-24	Montreal, Canada	IWA World Water Congress and Exhibition
20-24	Paraná - Brazil	Simpec II - Paranaense Symposium on climate studies and 19th Week of Geography
21	Mexico DF, Mexico	Latin American Conference on GIS in Education
21-24	Portland, OR, EUA	ION GNSS 2010 Conference Programme
22	Washington DC, USA	LI Geocloud 2010
22	Washington DC, USA	Location Intelligence 2010
22-24	Mexico DF, Mexico	17th Latin American ESRI User Conference 2010
22-24	Merida, Venezuela	1st Venezuelan National Congress on Geographic Information Systems GIS - CONAVESIG
23	São Paulo SP, Brazil	GeoCCIR 2010 Geocertification of Rural Property
23-25 *NEW*	Campus de Lages (SC), Brazil	GeoCCIR 2010 - Seminar on Georeferencing, Registration, and Certification of Rural Property
23-24	Calgary, Alberta, Canada	GIS for Oil & Gas Conference and Exhibition
23-24	Daytona Beach FL, USA	4th Annual Central Florida GIS Workshop
26-30	Fortaleza, Ceará, Brazil	IX Brazilian Symposium on Geographical Climatology - IX SBCG
Sep.26-Oct.1	Belém, Pará, Brazil	45th Brazilian Congress of Geology
27-30	Jackson Hole WY, USA	Remote Sensing & Hydrology Symposium 2010
28-29	Plymouth MI, USA	PLM Road Map 2010
Sep.28-Oct.1	Orlando FL, USA	GIS-Pro 2010: URISA/48th Annual URISA Conference & Exposition
Sep.29-Oct.1	Merida, Venezuela	1st National Congress on Geographic Information Systems GIS (ConaSIG)” E-mail: aseciam@gmail.com or aseciam@ula.ve
Sep.29-Oct.3	Savannah GA, USA	National Conference on Geography Education
Sep.30-Oct.1	Regina SK, Canada	ESRI Regional User Conference
Sep.30-Oct.2	Tempe AZ, USA	International Associations for the Study of the Commons USA Regional Meeting

OCTOBER 2010

3	Santiago, Chile	GEOSS Workshop XXXIX – Forest and Bio-energy
4-7	Canoas RS, Brazil	Integrated Symposium on Geotechnologies of Southern Cone - SIG-SUL 2010
4-8	Santiago, Chile	Latin American Remote Sensing Week (LARS)
4-6	Atlantic City NJ, USA	MAC URISA 2010 Conference
5-7	Rio Claro, São Paulo, Brazil	I Brazilian Congress of the Space Organization and X Graduate Geography Seminar UNESP Rio Claro
6-7 *NEW*	San Francisco CA, USA	Location and Beyond Summit
6-7	Toronto ON, Canada	ESRI Regional User Conference
6-8	Binghamton NY, USA	Race, Ethnicity and Place Conference
6-9 *NEW*	Panama, Panama	XIII National Congress on Science and Technology Contact: cojucip@hotmail.com
8-12	Buenos Aires, Argentina	International Congress on Bicentenary Geography, 71st Geography Week

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8-12	Guanajuato, Mexico	14th SELPER International Symposium
10-14	Florianópolis, SC, Brazil	9th Congress of Multipurpose Technical Cadastre and Territorial Management COBRAC 2010
12-14	Guayaquil, Ecuador	International Workshop on ENSO, Decadal Variability and Climate Change in South America
12-15 *NEW*	Rio de Janeiro, Brazil	24th Meeting of the Committee on Earth Observation Satellites (CEOS)
13-15	Frankfort KY, USA	2010 Kentucky GIS Conference
16	Cáceres MT, Brazil	3rd Symposium on Wetland Geotechnologies Further information: http://www.geopantanal.cnptia.embrapa.br/2010/
17-20	Dearborn MI, EUA	2010 ESRI Electric & Gas User Group Conference
18-20	Denver CO, USA	2010 ESRI Health GIS Conference
18-22	Singapore, Singapore	GSDI 12 World Conference 2010: Realizing Spatially Enabled Societies
18-22	Orlando FL, USA	E-Learn 2010
19-20	Ottawa, Canada	ESRI Regional User Conference
19-21	Curitiba Paraná, Brazil	IX Updated Seminar on Remote Sensing and Geographic Information Systems Applied to Forestry Engineer
19-23	San Francisco CA, USA	Oracle OpenWorld
20-21	Naperville IL, USA	ILGISA Fall Conference
20-22	La Cumbre, Cordoba, Argentina	First International Conference on Advances in New Technologies, Interactive Interfaces and Communicability (ADNTIIC 2010)
20-22	Santiago, Chile	IAOS/Scorus Conference on Official Statistics and the Environment: Approaches, Issues, Challenges and Linkages
20-23	Fort Worth TX, USA	Applied Geography Conference
24-26	Saratoga Springs NY, USA	2010 New York State Geographic Information Systems (GIS) Conference
24-27 *NEW*	San Juan, Puerto Rico	1st Puerto Rico Space Congress and Auction - Space is the answer! Contact: Charles F. Radley info@stratowave.com
24-27	Lake Buena Vista FL, USA	Pictometry FutureView 2010
25-26	Montevideo, Uruguay	First Uruguayan Congress on Spatial Data Infrastructure: Contributing to Development of a Regional Network
25-27 *NEW*	Sao Jose dos Campos, Brazil	6th Meeting of Users with Satellite Imagery EUiSSeR
25-27 *NEW*	San Ramon CA, USA	2010 HDS Worldwide User Conference. Leica High Definition Surveying (HDS) User Conference
25-28	Houston TX, USA	GITA's GIS for Oil & Gas Conference
25-28	Nashville TN, USA	GEOINT Symposium 2010
26-27	Fredericton NB, Canada	ESRI Regional User Conference
28 *NEW*	Houston TX, USA	2nd Annual Blue Marble User's Conference
Oct.28-Nov.1	Sao Paulo SP, Brazil	GEOINFO 2010 - XI Brazilian Symposium on Geoinformatics

NOVEMBER 2010

1-4	Nashville TN, USA	GEOINT 2010
1-5	Vancouver BC, Canada	4th International Workshop on Semantic and Conceptual Issues in GIS (SeCoGIS 2010)
2	San Jose CA, USA	1st International Workshop on GeoStreaming (IWGS2010)
2-3	Vancouver BC, Canada	ESRI Regional User Conference
2-5	San Jose CA, USA	ACM SIG SPATIAL GIS 2010

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4	Oakville ON, Canada	GITA Ontario Chapter Fall Forum 2010
4-5	Denver CO, USA	MAPublisher Training
8-9	Lima, Peru	International Congress on Disaster and Land Management in the Americas Contact: desastres@ign.gob.pe
8-10	Las Vegas NV, USA	Trimble Dimensions 2010
8-12	Nayarit, Mexico	National Convention of Geography and the Environment 2010 Contact: convencion.geografia@inegi.org.mx
8-12	Guanajuato, Mexico	XIV International SELPER Symposium "Observation & Monitoring of the Earth Related to Climate Change" (An ISPRS Regional Conference) E-mail: silvia.casas757@gmail.com
8-12	Lima, Perú	Joint Meeting of PAIGH Directing Council, Americas Geocentrical Reference System (in Spanish SIRGAS) and School of "References System" (in Spanish IAG-SIRGAS)
15-21	Bahía Blanca, Argentina	1st Working days on new Southern Argentina Geographic Information Technologies Further information: Jornadasinfogeo@gmail.com
15-19	Orlando FL, USA	AutoCarto 2010
15-19	Orlando FL, USA	ASPRS/CaGIS 2010 Fall Specialty Conference
16-17	Huntsville AL, USA	Rocket City Geospatial 2010
16-18	Orlando FL, USA	Commission IV Symposium "Geodatabases & Digital Mapping" / Marguerite Madden (President Commission IV) / mmadden@uga.edu
16-19	Havana, Cuba	IV Conference of the Latin American Population Association "Cultural conditions and transformations, economic factors, and demographic trends in Latin America"
16-19	Orlando FL, USA	ISPRS Commission IV - Geodatabases and Digital Mapping
17-18	St. John's NL, Canada	ESRI Regional User Conference
17-18	Tallahassee FL, USA	Seven Hills Regional User Group for GIS (SHRUG)
22-26	San Miguel de Tucumán, Argentina	First Latin-American Congress (IV Argentinean) on Biodiversity and Conservation 2010 , Information: info@biodiversidad.com.ar
Nov. 30-Dec 2	Las Vegas NV, USA	Autodesk University 2010 Conference and Exhibition

DECEMBER 2010

1 *NEW*	Salvador (BA), Brazil	National Seminar - Documentation of architectural heritage with the use of Digital Technologies
6-10	Port of Spain, Trinidad	URISA's 5th Caribbean GIS Conference
14-17 *NEW*	Foz de Iguazu, Brazil	Third Symposium on Spatial Statistics and Modeling Pictures III - SEEM 2010

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JANUARY 2011

19-21	Washington DC, USA	ESRI Federal User Conference (FedUC)
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FEBRUARY 2011

2-4	Washington DC, USA	ESRI Federal User Conference (FedUC)
7-9	New Orleans LA, USA	International LiDAR Mapping Forum
7-11	La Havana, Cuba	VII International Congress GEOMATICS 2011
23-24	Redlands CA, USA	2011 ESRI California/Hawaii/Nevada Regional User Group Conference

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23-28	Gosier, Guadeloupe, France	GEOProcessing 2011: The Third International Conference on Advanced Geographic Information Systems, Applications, and Services
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MARCH 2011

6-8	Palm Springs CA, USA	2011 ESRI Worldwide Business Partner Conference (BPC)
7-10	Palm Springs CA, USA	2011 ESRI Developer Summit
21-24	Myrtle Beach SC, USA	Coastal GeoTools 2011
28-31	Fresno CA, USA	17th Annual California GIS Conference - Meeting California's Challenges

APRIL 2011

14-15	Resistencia, Chaco, Argentina	First National Congress of Geographic Information Technologies and Fourth Meeting of Members of Geographic Information Technologies of the NEA Contact: labtig@hum.unne.edu.ar
Apr.30 - May 15 *NEW*	Curitiba, PR, Brazil	XV Brazilian Symposium on Remote Sensing (SBSR) Deadline for paper submission: November 10, 2010

MAY 2011

1-5	Milwaukee WI, USA	ASPRS 2011 Annual Conference "Ride On The Geospatial Revolution"
2-4	Jacksonville FL, USA	2011 ESRI Southeast Regional User Group
14-18	Victoria BC, Canada	International Marine Conservation Congress: Call for proposals
19 *NEW*	Botucatu SP, Brazil	II Symposium on Geostatistics applied to Agrarian Sciences

JUNE 2011

27-30	Atlanta GA, USA	2011 URISA GIS in Public Health Conference Contacto: IMCCprogram@gmail.com
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NOVEMBER 2011

14-18	Santiago, Chile	UGI 2011 Regional Geographic Conference
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