

Global Spatial Data Infrastructure Latin America and the Caribbean Newsletter

SDI-LAC

September 2009

Vol. 6, No. 9

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 Carlene Boodoo, Research Assistant at the University of West Indies (UWI), currently advancing her MSc in Geoinformatics at UWI, as correspondent member to SDI-LAC Newsletter for Trinidad and Tobago!

Now, SDI-LAC Newsletter is available in Portuguese! Portuguese Translation of SDI-LAC is possible thanks to Eduardo Freitas-Oliveira, a cartographic engineer, MSc in GIS, editor of MundoGEO Web Portal and InfoGEO Magazine.

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>

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>

Editor, Nancy Aguirre, Pan-American Institute of Geography and History (PAIGH), <http://www.ipgh.org>, cnaguirre@ipgh.org

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Input to this Issue

Thank you for their contributions to this issue of the SDI-LAC newsletter to:

Carlene Boodoo	SDI-LAC Correspondent member, Trinidad and Tobago
Santiago Borrero	Secretary General, Pan-American Institute of Geography and History, PAIGH, Mexico
Gregory Knapp	Associate Professor, Department of Geography and the Environment, University of Texas at Austin, USA
Luisa Fernanda Neira	Biodiversity and Sustainable Land Management, Department of Sustainable Development, Executive Secretariat for Integral Development, Organization of American States, Washington, D.C., USA
Pablo Morales	SNIT, Executive Secretariat, Santiago, Chile

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SDI News, Links, Papers, Presentations

Call for Proposals: GSDI Small Grants Program



The Global Spatial Data Infrastructure Association is pleased to announce its Small Grants Program for the year 2009-2010.

Summary

- * Awards for spatial data infrastructure or EOS-related activities in economically disadvantaged nations
- * Application deadline of **1 October** 2009
- * 4,000 words maximum
- * Awards of \$2,500 USD in cash and/or contributed volunteer professional services for the project

Background

The Global Spatial Data Infrastructure (GSDI) Association is dedicated to international cooperation and collaboration in support of local, national, and international spatial data infrastructure developments that would allow nations to better address social, economic, and environmental issues of pressing importance. We are committed to bringing about an infrastructure that will allow users globally to access spatial data at a variety of scales from multiple sources that ultimately will appear seamless to all users. The GSDI Association supports the work of organizations to develop their own SDI initiatives, nationally and regionally, and collaborates with local, national, and international organizations to ensure that spatial data, services, and metadata are accessible through interoperable standards-based services, systems, software, and products that operate in a web-enabled environment. The success of the GSDI Association depends on the quality of its partnerships with public, private, academic, and non-governmental organizations. Through adoption of common, international standards, key architecture principles, and approaches for capacity building in developing countries, the GSDI initiatives also link national SDI efforts with the vision and goals of the Group on Earth Observation (GEO) and its Global Earth Observations System of Systems (GEOSS).

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Description

The GSDI is being advanced through the leadership of many nations and organizations represented by a GSDI Association Council and Board of Directors. The multi-national Board includes representatives from all continents and all sectors: government, academia, and the private sector as well as regional SDI initiatives referred to as permanent committees:

- * Africa: United Nations Economic Commission for Africa, Committee on Development Information: Geo Subcommittee (CODI-GEO)
- * Americas: Pan-American Institute of Geography and History (PAIGH)
- * Asia and Pacific: Permanent Committee for Geographic Information for Asia and the Pacific (PCGIAP) (ex-officio)
- * Europe: European Umbrella Organization for Geographic Information (EUROGI)

Please visit the GSDI Association website (<http://gsdi.org>) to familiarize yourself with the mission, goals, programs, accomplishments and priorities of the organization.

The GSDI Association, along with partners and participants, has allocated resources from the U.S. Federal Geographic Data Committee and the GISCorps of URISA, to fund a small grants program to support national or sub-national activities that foster partnerships, develop in-country technical capacity, improve data compatibility and access, and increase political support for spatial data infrastructure and earth observations application development. These resources will be used to offer two types of grants this year:

- * Cash up to 2,500 USD to be used on your project, and/or
- * Professional Services applied to your project

Professional Services will be coordinated by the GISCorps, an international initiative that offers GIS services by qualified economies. Support may focus on technical or institutional projects, as long as tangible outputs and several institutions collaborate on the effort. A list of typical projects follows but this list is not exhaustive:

- * Convening of national or sub-national seminars or workshops related to SDI
- * Producing SDI- and EO-related training manuals and modules (these materials must not duplicate existing materials)
- * Establishing metadata and clearinghouse nodes
- * Establishing web mapping services and applications
- * Accomplishing Geodata and/or SDI surveys or inventories
- * Producing and disseminating newsletters and awareness-raising materials about SDI
- * Drafting policy and legislation related to SDI

Priority will be given to projects in developing nations and countries with economies in transition. Grants can be awarded to SDI coordinating bodies (councils, committees) and GIS user groups, but the GSDI Association asks that one institution take responsibility for receiving/depositing the funds. Grants will not cover organization overhead expenses.

Proposals should include information under the following headings:

1. Title of Project/Activity
2. Focal Point Institution
3. Contact Person (business street address, phone/fax, email, and website)
4. Introduction and Background (include a description of the national or local institutional framework and what has been achieved thus far)
5. Project Description
6. Summary of Deliverables

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7. Period of Performance (time-line for overall project, deadline dates for deliverables, date of final project report to be submitted to grants@godi.org)
8. Indicate your preference for an award of cash or professional services
9. Budget (itemize how the money is to be spent or the predicated extent of services needed for specific tasks)
 - a. If one or more GISCorps volunteers are requested please indicate that in your GSDI application and also provide a description of tasks requested of volunteer professional(s) and other information at <http://www.giscorps.org/>. Use the "New Project" link on this page to complete the request for GISCorps volunteer assistance.
10. Details of additional or in-kind funds to co-finance the activity
11. List of Collaborators (with contact information)
12. Envisioned Follow-up Activities
13. Appendix: May include the Final Reports from any previous GSDI Small Grant Awards

Proposals must be submitted digitally to grants@godi.org in English and should be preferably two pages in length but no more than three pages or 4000 words (excluding any appendices). Please submit your proposal as a .pdf file (or alternatively .doc or .rtf file) using 12-point Times Roman or Arial font.

We anticipate funding up to 12 Grants in Cash and up to 4 Grants in Professional Services. Grant funds will be issued as paper checks in US dollars drawn on US Banks or as wire transfers. If the recipient chooses to receive funds by wire transfer, \$50 US will be deducted from the award amount to cover the processing costs for the wire transfer. The recipient institution will be required to provide a project report and an expense report upon completion of the project. The GSDI Association may include excerpts of the project reports in GSDI newsletters or on its website. Awardees are encouraged to publish a local press release highlighting the award from the GSDI Association as well as the proposed activities, and to send copies of these to the GSDI Association.

Proposals are due on **1 October** 2009. Please e-mail them to: Societal Impacts Committee, GSDI Association, grants@godi.org

For more information about the GSDI or to subscribe to the GSDI News List, please see <http://godi.org>. For questions about this request for proposals, please contact grants@godi.org

Note: The Small Grants Program is intended as a benefit of "full membership" in the GSDI Association. Because the GSDI Association is fairly young, we are making this opportunity available currently to non-members as well. However, full members may obtain favored treatment in the instance in which two grant applications have been ranked similarly in the peer review process. Note that the annual GSDI Association membership fee for national organizations in low and very low per capita income nations may be as little as US\$100 or documented in-kind contributions in lieu of dues. Please see <http://www.godi.org/documents/OrgnMemberApp.pdf>

[The GSDI Association activities related to SDI convergences \(Ninth United Nations Regional Cartographic Conference for the Americas, New York, 10-14 August 2009\)](#)

Prepared by Bas Kok, Past-President, Global Spatial Data Infrastructure (GSDI)



United Nations Statistics Division

Excerpts from the original article

The new GSDI Strategic Plan focuses for a major part on SDI convergences and strategic alliances. The world is experiencing currently rapid technological, economic, environmental and social changes. Spatial Data Infrastructure

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concepts and practices have been successfully deployed and implemented in many jurisdictions. Capacity building is becoming increasingly important all over the world to promote the use of spatial data infrastructures all over the world and communicate about the main conditions for successful SDI development and implementation. One of the most successful approaches is the work of INSPIRE and the role of the National Mapping Agencies in Europe in the creation of successful SDI implementation. the need to create more strategic alliances with important partners in the future, and the importance of having excellent topographic and cadastral data available as a key condition for SDI development and implementation. We organized our GSDI 11 conference this year in June in cooperation with the European Commission in the Netherlands to launch the SDI convergence process as one of the key elements of our work. During this conference the main results of the INSPIRE Directive and the progress made in the implementation of the legal and technical process of the SDI's in the European Union member states were presented...The experiences in Europe show that the Cadastres and National Mapping Agencies are playing an important role in their Spatial Data Infrastructure Development and implementation and some SDI's are currently essential tools in their national e-government programs... The GSDI Association will intensify cooperation and will intensify co-operation and the creation of strategic alliances with all the GEO GEOSS community, and the National Mapping Agencies and Cadastres world wide to communicate the successes throughout the world in more detail and stimulate capacity building in other parts in the world as much as needed... We are aware that also many successes in the SDI development and implementation can be presented from the American regions. This is one of the main reasons behind our SDI convergence approach in the broader spatial community but also in our SDI Community itself. The SDI concept has been launched in almost every country in the world. There is a rapidly growing need for communication, debate and interaction among successful international SDI stakeholders concerning how they utilize each other's SDI for e-government, optimize access and business development. For that reason the GSDI Association stimulates in the coming years the establishment of strategic forums throughout the world that enables the American Community to interact and communicate with other regions to exchange the knowledge about the key elements of successful SDI implementation. The GSDI Association invite all our partners in the American Region to take actively part in this discussion, debate and SDI bridge- building process and learn from each others successful experiences. This process is necessary for our decision making process on global level for solving the most pressing societal issues, such as urban sprawl, climate change, poverty issues and global calamities. As a result of this convergence process, in the coming years, similar successes and common approaches in the American regions can be communicated with our global network as well [The complete paper may be found at: <http://unstats.un.org/unsd/geoinfo/9th-UNRCC-A/IP/IP%209%20Kok.pdf>]

[Brazil and INDE in the 9th United Nations Regional Cartographic Conference for the Americas \(New York\)](#)

Source: IBGE



The UN Regional Cartographic Conference for the Americas, promoted by the Statistics Division of the United Nations UNDS, discussed ways to improve the exchange of information for mapping the American continent and the definition of the nomenclature of countries, regions and geographic names. Mapping is fundamental in the UN planning and conduction of field work, including Peace tasks. Results of the Regional Conference on Cartography served to facilitate data collection for the world census that will occur in 2010. The Director of Geosciences at the Brazilian Institute of Geography and Statistics (in Portuguese IBGE), Luiz Paulo Souto Fortes, elected president of the conference, spoke to UN Radio on the exchange of information among participating countries. Respecting INDE, the National Commission of Cartography (in Portuguese CONCAR) gave on August 12, 2009 a presentation titled "Overview of Brazil's Spatial Data Infrastructure enterprise". The presentation was given by the Coordinator of the Subcommittee on Planning and Monitoring of CONCAR, and also Advisor to the Directorate of Geosciences (DGC) of IBGE, Rafael Castañeda March

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Filho. To access the webpage of the event: <http://unstats.un.org/unsd/METHODS/CARTOG/unrcca.htm>. Follow the interview of Marcos Alfaro to Souto Fortes at: <http://www.unmultimedia.org/radio/portuguese/detail/168280.html>: View the presentation at: http://www.concar.ibge.gov.br/arquivo/INDE_9a_ConfCartONU_Rafael.pdf Technical Papers presented to the Ninth United Nations Regional Cartographic Conference for the Americas may be found at: <http://unstats.un.org/unsd/geoinfo/9th-UNRCC-A-Docs.htm>

SNIT Blog: The Blog of the Geospatial Data Infrastructure of Chile

Source: Pablo Morales



The Geospatial Data Infrastructure of Chile (in Spanish SNIT) has begun to develop a new geoblog: [SNIT's blog \(http://snitchile.blogspot.com/\)](http://snitchile.blogspot.com/) is available at the [Geospatial Community](#) website. This blog is intended as a way to keep abreast of what is happening in the field of Geographic Information Technologies (GIT) and Spatial Data Infrastructures (SDI). We cordially invite you to visit and participate in our blog, commenting on our publications and sending news to our e-mail: snit@mbienes.cl

Water and Sewerage Authority of Trinidad and Tobago (WASA)

Source: Carlene Boodoo

The Water and Sewerage Authority (WASA) of Trinidad and Tobago (T&T) was established by an Act of Parliament in 1965 to manage the water and sewerage sector of the country. An essential component of this mandate is the delivery of a safe, reliable and efficient water supply to satisfy the demand of domestic and industrial customers (www.wasa.gov.tt). The Systems Optimization Department plays a major role in achieving these objectives of the mandate. This department comprises of several sections which include Global Positioning Systems (GPS), Geographic Information Systems (GIS), Computer Aided Drafting/Engineering (CAD/E) and Modeling. Some of the products and services offered by the department are: digital data, maps, geographic data analysis, CAD/E designs, network modeling and support. Most of the digital data (**Table 1**) cover the entire country of T&T (WASA 2004) and are all used in several applications within the WASA and could also be used for other applications outside of the agency



Table 1: Digital Data Products

Data	Components
Property	Residential and business properties and building in T&T
Hydrographic Features	Rivers, reservoirs, wells, aquifers
Infrastructure	Mains, appurtenances
Transportation Networks	Highways, main roads, minor roads, traces etc.
Hypsographic Features	Contours, spot heights
Facilities (Building and Structures)	Schools, churches, police stations, public utilities (e.g. TSTT, TTEC) etc.
Installations	Boosters, high lifts, intakes, springs, sewers, storage tanks, waterworks.
Administrative Boundaries	WASA Specific: districts, billing areas, district metered areas (DMA) etc. General: towns, wards, counties, enumeration districts (EDs), municipal corporations etc.

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The CAD/E section focuses on five engineering disciplines; civil, survey, electrical, mechanical, architectural and structural. The modeling section provides two main services; pressure management and network management support. Support services include printing, scanning, software and data collection (WASA 2004). The Systems Optimization Department of WASA is constantly coming up with ways of expanding their products and services while ensuring that their data is current. This can be seen in their current efforts to update their base dataset using 2007 satellite imagery as well as a short term plan to link the customer database to the GIS to enable improved customer service. For more information on these products and services please contact: Water and Sewerage Authority, Systems Optimization Department, Farm Road, St. Joseph. Tel: 662-2302 ext. 2440, Fax: 662-9907, Website: www.wasa.gov.tt [References: Shawn Salandy: Ag. Manager, Systems Optimization Department; Water and Sewerage Authority (WASA). 2004; Systems Optimization Department: Spatial Data Catalogue 2004 St. Joseph: WASA; <http://www.wasa.gov.tt>]

[CNR meets with University of Madrid and University of El Salvador](http://www.geoinstitutos.com/)

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

Main objectives of this meeting between authorities of the Polytechnic University of Madrid, the University of El Salvador (in Spanish UES) and the National Cadastre Center (in Spanish CNR) were to promote a network of Geographic Information Technologies (LatinGeo), to develop projects related to teaching, research and extension, and to develop a Masters Program on Geo-information Technologies, based at the University of El Salvador, and co-executed by the Institute of Geography and the CNR. Upon implementation of the masters program at UES it is expected that CNR's staff will benefit, as they may be qualified and trained on new tools and techniques to develop mapping projects. Furthermore, with the Laboratory Network Project, UES and CNR, with support of the Geographic Institute of Madrid, will create and develop institutional mapping research projects. As part of the visit of LatinGeo authorities, it was conducted a Conference entitled "Spatial Data Infrastructures: prospects in El Salvador and Central America", with contributions of faculty members of the Department of Agronomy of UES, on topics related to Geoinformation Technologies (GIT).

[LICJ Newsletter, Volume 1, Issue 1, June 2009 now available](http://www.licj.org.jm/)

Source: <http://www.licj.org.jm/>

The Land Information Council of Jamaica (LICJ) has published online the first issue of its Newsletter. You may access the LICJ Newsletter [here](#). Inside this first issue it is included: Introducing GISSEP, Manchester Parish Council, Metadata in the Jamaican landscape, National VRS Network, Geo-informatics aiding Rural Agricultural Development, Geo-Analysis of Squatter Settlements in Jamaica and Spatial Data Management Division.

[SNIT Newsletters, August II 2009](http://www.snit.cl/)

Source: <http://www.snit.cl/> by way of Santiago Borrero



Is now available SINIT Newsletter for August 2009. The entire newsletters archive may be found [here](#). SNIT monthly Newsletters are being published since April 2008 and include current issues related to spatial data infrastructures at national, regional and global levels.

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Objects Catalog, IGM of Ecuador

Source: <http://www.geoportaligm.gov.ec>

The "Objects Catalog for Producers and Users of Geographic and Cartographic Information in Ecuador" was issued by Resolution No. IGM-e-018 on August 3, 2009. Based on ISO 19126 it was established an information organizing scheme, which includes geographic data definition and classification, description, attributes, value codes, and a data dictionary. These allows understanding better spatial data, provides guidance to reorganize the data into spatial databases and determine its general characteristics in a simple and concise way, based on abstraction methods, where data is grouped hierarchically into categories and subcategories. In 2007, a first approximation for structuring topographical data (vector) for its use in Geographic Information Systems were conducted; after applying basic topological rules per element, data was catalogued as an early stage to achieve the implementation of a Geographic Database for the country. With this experience in implementing a "Feature and Attribute Coding Catalog" (catalog of objects), the respective document was adjusted based on a combination of attributes thus allowing a better object description without losing descriptive information. The goal of this institutional norm is to standardize the objects' names (topic, layer), and basic cartographic information attributes nationally, for the benefit of the geoinformation community users. It is worth noting that the included fields (attributes) relate to information gathered by the Military Geographic Institute (in Spanish IGM) to develop national topographic maps. You may access the complete document [here](#).



XVI Annual Latin American ESRI Users Conference

Source: ESRI Newsletters - SIGAdelante

The XVI Annual Latin American ESRI Users Conference will be held on October 7-9, 2009 in Bogotá, Colombia. This Conference is the main event for ESRI Geographic Information Systems (GIS) users in Latin America. It provides a unique opportunity to connect with your GIS community; take innovative ideas and important tools back to work; and learn new ways to leverage your current GIS investments. More information at:

<http://www.procalculoпрosis.com/lauc09/english/inicio.html>



Now is Open the Registration Period for the First Latin American and Caribbean gvSIG Users Working Days

Source: gvSIG Project, Communication Office



It's now open the registration period for the First Latin American and Caribbean gvSIG Users Working Days [1], which will take place from September 30 to October 2, 2009 at the National Geographic Institute of Argentina in Buenos Aires, under the motto "Cooperation to Grow." Registration is free (limited capacity) and may be done online using the application form inside the registration section at the Conference Webpage [2]. Registrations by e-mail, phone or fax will not be accepted.

[1] <http://www.gvsig.org/web/community/events/jornadas-lac/2009>

[2] <http://www.gvsig.org/web/community/events/jornadas-lac/2009/Inscripcion/formulario-de-inscripcion>

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[Call for Papers and Registration Open: XXIV FIG International Congress 2010](#)

Source: <http://www.fig2010.com/>

[Calendar Subscription](#) | [Bookmark and Share](#) | [Contact Us](#) | [E-mail a Colleague](#)



Facing the Challenges - Building the Capacity, Sydney Convention and Exhibition Centre, Sydney Australia, 11 - 16 April 2010. The Organizing Committee are pleased to announce that the registrations for the XXIV FIG International Congress 2010 are now open. The Call for Papers for the XXIV FIG International Congress 2010 is now open on the Congress website. For the first time at a FIG Congress, the Call for Papers is open for both peer-review and non peer-review submissions. The Call for Papers will close soon, on **22 September** 2010. For more details on submitting a paper for the Congress, please log on to <http://www.fig2010.com/>; Email: fig2010@arinex.com.au

[Joint International Workshop of ISPRS WG IV/1, WG VIII/1 and WG IV/3](#)

Source: <http://www.incois.gov.in/> by way of Santiago Borrero



The Joint International Workshop of ISPRS WG IV/1, VIII/1 and IV/3 on 'Geospatial Data Cyber Infrastructure and Real-time Services with special emphasis on Disaster Management' is scheduled to be held during November 25-27, 2009 at Hyderabad, India. Further details and information will be updated on the Workshop website (www.incois.gov.in/isprs). Abstracts of original research paper(s) covering one or more of the above topics are invited for presentation (either oral or poster) in the workshop. Abstracts not exceeding 1000 words to be submitted electronically to the Workshop Secretariat (isprs@incois.gov.in), by **September 30**, 2009.

[Joint Workshop: Core Spatial Databases – Updating, Maintenance and Services – from Theory to Practice](#)

Source: <http://geo.haifa.ac.il/> by way of Santiago Borrero

**ISPRS JOINT WORKSHOP on:
"Core Spatial Databases - Updating, Maintenance and
Services - from Theory to Practice"
15-17 March, 2010**



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You are cordially invited to participate and contribute to the ISPRS Multi-Commission Workshop on "Core Spatial Databases: Updating, Maintenance and Services, from Theory to Practice," organized jointly by six ISPRS Working Groups from three Commissions and to take place in Haifa, Israel from March 15 to 17, 2010 <http://geo.haifa.ac.il/~isprs/HaifaJointWS>. Contact: Ms. Avia Mayer icwgiv-viii@geo.haifa.ac.il

[OGC's Spatial Law and Policy Summit](#)

Source: OGC

The Open Geospatial Consortium (OGC®) announces that it will hold a Spatial Law and Policy Summit at The Westin Washington, D.C. City Center on October 7, 2009. Professionals from the government and private sector whose work involves laws and policies related to geospatial technology are invited.

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Articles and Books of the Month

[Development of a Geospatial Framework to Implement a Regional Spatial Data Infrastructure \(RSDI\) in CARICOM](#)

Prepared by Harold Wall, IDB/UNFPA Project Coordinator, Caribbean Community (CARICOM) for the Ninth United Nations Regional Cartographic Conference for the Americas, New York, 10-14 August, 2009

Abstract

Almost all human activities take place on land. In fact, human existence is almost impossible without this resource (Ramlal, 2001). As the effects of global climate change are becoming more destructive in small-island states in the Caribbean, Governments are becoming aware of the need to effectively manage this finite resource and its accompanying attribute data. The effective management of land and its resources requires geospatial data that are current, timely, reliable and relevant. The systems currently in place are not responsive to the needs of the timely intervention required for informed policy decisions (Ramlal, 2001). What is needed is a framework to facilitate the coordinated exchange of geospatial information on natural resources, environment, land ownership, land use, transport, communication, demography and socio-economic indicators amongst geospatial data stakeholders within the CARICOM community. A regional coordinating approach to effectively manage information provides viable alternatives to address this problem, not just locally but regionally. This paper discusses a justification for the development of such a regional framework in CARICOM. [The complete article may be found at: http://unstats.un.org/unsd/geoinfo/9th-UNRCC-A/IP/IP%2025%20CARICOM_Wall.pdf]

[Activities and experiences of Suriname in the field of Spatial Data Infrastructure: Advancement and Challenge in a Globalization World](#)

Prepared by Hein Raghoobar (Suriname) for the Ninth United Nations Regional Cartographic Conference for the Americas, New York, 10-14 August, 2009

Abstract

This paper presents a review of the activities and experience of Suriname in the field of development and arrangement of its Spatial Data Infrastructure in all sectors of the society. In this report attention is paid the problems, reforming and innovations within the network of institutions in spatial information systems, geo-spatial policy and the start of a new land registry system: "Groundregistration and Landinformation System" (G.L.I.S.). In terms of vision there will be possibility in this conference to look for regional and international co-operation with relevant and competent organizations for support of the Suriname Spatial Data Infrastructure and to set up of a Geo-Connections in Suriname. [The complete article may be found at: <http://unstats.un.org/unsd/geoinfo/9th-UNRCC-A/CRP/CRP%202%20Suriname.pdf>]

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Geospatial Research and Applications

[Presidents take Mesoamerican Territorial Information](http://www.servir.net/)

Source: <http://www.servir.net/>

During the XI Summit for Dialogue and Agreement Mechanism of Tuxtla, Heads of State and Government of the Mesoamerican region, reaffirmed their willingness to pursue the Mesoamerican Territorial Information System that the Water Center for the Humid Tropics of Latin America and the Caribbean (CATHALAC) implements in coordination with the National Civil Protection Organizations and Geographic Institutes, as part of the Project for Integration and Development of Mesoamerica. The Territorial Information System is a valuable tool for the integration and coordination in disaster prevention and emergency response in the region. This system will use the technological platform of the Regional Visualization and Monitoring System (in Spanish SERVIR) that operates at CATHALAC since 2005, with support from the

United States Agency for International Development (USAID) and the National Aeronautics and Space Administration (NASA), which combines information provided by countries with dynamic models, and real-time information from the most advanced earth observation systems operated by many international space agencies, for timely decision making. In part no. 41 of the Declaration of Guanacaste, the Heads of State and Government of the Mesoamerican Region agreed "to adopt the platform and resources to ensure the operation and sustainability of the Mesoamerican Territorial Information System for Natural Disasters Risk Reduction (in Spanish SMIT). This project is led by CATHALAC with participation of Civil Defense Offices and Geographic Institutes of the region."



[Earth System Atlas promotes access to research data](http://earthobservations.org/)

Source: <http://earthobservations.org/>



The International Geosphere-Biosphere Programme (IGBP) has long recognized the challenge of sustaining, and ensuring continued access to, the numerous data bases being generated by researchers. One of the most active spin-offs from the IGBP's early efforts in this field is the [Earth System Atlas](http://earthobservations.org/). Developed by a team of part-time volunteers under the guidance of a project director, the Earth System Atlas aims to promote broader access to databases generated by researchers who study global change. To achieve this, the team has developed a data management and visualization engine (DMVE) that makes it easier to view and manipulate data. The engine includes a suite of tools for generating maps on the fly and performing complex data manipulation functions –such as producing “animation” loops of time series or enabling user-defined overlaps– all via a web browser.

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GIS Tools, Software, Data

[Now available OSGeo Journal - Volume 5 – July 2009, OSGeo 2008 Annual Report](#)

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

This volume of the Journal is the OSGeo 2008 Annual Report. Of special interest is the section on Project Reports (pages 14-30) describing current progresses of open source software projects including: Degree, FDO, GeoNetwork OpenSource, GEOS, GeoTools, GRASS GIS, gvSIG, Mapbender, Mapbuilder, MapGuide Open Source, MapServer, OpenLayers, OSSIM, and Quantum GIS, among others. You may download the complete Volume 5 ([PDF](#) 12 MB). All articles are copyrighted by the respective authors and licensed under the Creative Commons Attribution- No Derivative Works 3.0 License.



[Portable GIS: on a USB stick](#)

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



The philosophy behind this idea was to provide beginners with a ready-installed and configured stack of open source GIS tools that would run in windows without the need for emulation or a live CD. By taking out the often difficult installation and configuration, it will make it easier for beginners to get started with open source GIS, so they are not put off before it gets interesting and fun. Not only that, but having a fully self-contained GIS system may prove useful in a number of real-life situations. The packages and menu system are all open source, but each component has a separate license. Some of the components have been altered in order to make them drive-letter independent.

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Training Opportunities

[The OGC announces Learning Resources for Geospatial Standards](#)

Source: <http://www.geoinformatics.com/> by way of Santiago Borrero



The Open Geospatial Consortium (OGC) announces an important new set of public resources for learning about, developing and implementing interoperable geospatial capabilities. The OGCNetwork "Learn" page (<http://www.ogcnetwork.net/learn>) offers links to

- Courses, journals, and professional papers
- Articles

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- Compliance testing information
- Conference presentations by OGC staff and members
- Discussion forums
- Document motions from OGC meetings
- Email discussion lists
- Links to videos
- OGC policy guidance on Lat/Lon axis order
- OGC standards document catalog
- OGC Interoperability Days event information
- Tutorials on developing implementations of OGC standards, such as the OpenGIS Web Map (WMS) Service, Web Coverage Service (WCS), Sensor Observation Service (SOS), and Geography Markup Language (GML) in JPEG 2000 standards.

The OGC Learn page is interactive. Users are encouraged to post updates using the comment feature. The Learn page is part of OGC Network TM , a window onto the dynamic, constantly changing Geospatial Web as described by the OGC Reference Model (ORM) (<http://www.opengeospatial.org/standards/orm>). OGC Network supports multiple communities of interest involved in geospatial interoperability, and it provides examples of working software, services, and information models (GML profiles, SLD examples, etc.). From the OGC Network TM site developers and geodata coordinators can quickly locate OGC-compatible geospatial Web services, the latest XML schema documents, discussion forums, compliance testing resources, and GML profile working areas. It provides the latest information on OGC-compatible software, services, and information models. Internet: www.opengeospatial.org

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Funding Opportunities, Awards, Support

[SIG-OT received the "Special Achievement in GIS" award](#)

Source: <http://www.igac.gov.co/>



Each year, ESRI recognizes outstanding work in the field of GIS by awarding the "Special Achievement in GIS (SAG)" prize, which is granted to ESRI users around the world in recognition of outstanding work in Geographic Information Systems (GIS). This year ESRI has honored the efforts of the Geographic Institute "Agustin Codazzi" of Colombia (in Spanish IGAC) and other participating institutions for the project "Planning and Territorial Ordering Geographic Information System" (SIG-OT), which was selected to receive it among more than 100,000 users worldwide. This award was presented at the XXVI Annual ESRI International Users Conference, which took place on July 13-17 in San Diego, California, attended by approximately 11,000 GIS users from more than 180 countries. On behalf of the SIG-OT project participated the Director General of IGAC, Iván Darío Gómez, the International Adviser of Swdesurvey, Christer Kjørneberg and the project's Technical Coordinator, Judith Salas. The presentation of the project was headed by Mr.

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Gomez, who said "SIG-OT is a fundamental tool for development and land use planning, and this award is an evidence of the Colombian progress of in this matter." IGAC extends this statement to all participating organizations in this project, as the base for the project was the consensus achieved and interagency collaboration in providing a Web application of SIG-OT accessible to all, thus contributing to timely decision making at national, regional and local levels. [Photo: Left to right: Judith Salas, project coordinator SIG_OT, IGAC, Jack Dangermond, ESRI President and Christer Kjørneberg, technical advisor of SIG-OT project, Swedesurvey]

Extended Deadline IABIN Catalog Call for proposals

Source: Luisa Fernanda Neira by way of Santiago Borrero

The deadline to submit proposals under the second IABIN Catalog Request for Proposals (RfP) to digitize METADATA has been extended until Monday, **September 7th**, 2009. We would appreciate your sending this information to interested organizations in your country. For questions, please contact Mike Frame (mike_frame@usgs.gov) or Olga Morales (usdecpr6@oas.org).

FIG Foundation announces the FIG Foundation Fellowship and Awards for FIG Congress 2010

Source: FIG e-Newsletter, August 2009



FIG FOUNDATION

ANNOUNCING THE FIG FOUNDATION FELLOWSHIP AND AWARDS 2010

The FIG Foundation that is an independent body within the FIG (International Federation of Surveyors) family which raises and disburses funds for the development of the surveying profession and surveyors has announced the FIG Foundation Fellowship and Awards for the FIG Congress 2010. The FIG Foundation has decided to make a number of awards in connection with the 2010 FIG Congress in Sydney, Australia. The flagship award will be the 2010 FIG Foundation Fellowship which will provide full funding for the Fellow to travel to and attend the Congress. In addition, the Foundation will award up to six grants which will provide €500 funding and complimentary registration each towards the grantees attending the Congress. Read more about the terms for applying (deadline for applications is **22 September** 2009) http://www.fig.net/figfoundation/foundation_award_2009.pdf

Curtin Research Fellowships, Australia

Source: <http://research.curtin.edu.au/>



Applications for the 2010 intake are now open. The closing date for applications is Friday **11th September 2009**. The Fellowship scheme aims to attract high quality post doctoral researchers with excellent potential for providing future academic and research leadership at the Curtin University of Technology. The scheme was expanded as a major strategic development under the University's Research Management Plan 2006-2008. It is highly competitive and continues to be amongst

the most prestigious Fellowship schemes in Australia. The fellowships are not restricted to Australian citizens. Applicants must have completed a research doctoral degree. Curtin University of Technology will offer up to thirteen Research Fellowships commencing in 2010.

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1. Early Career Researcher Fellowship: Up to five ECR Fellowships for suitably qualified applicants who received their PhD within the last five years
2. Senior Research Fellowship: Up to eight SR Fellowships for suitably qualified applicants with more than five years post-doctoral experience.

For more information on the targeted areas of research activity, fellowship's guidelines and application forms please log on to: <http://research.curtin.edu.au/guides/fellowships.cfm>



Call for Projects: Planet Action – Fighting the Climate Crisis

Source: <http://www.planet-action.org/>

Planet Action provides satellite imagery, geographic information and technology support to local projects that investigate and assess climate change issues focusing on human issues, drought and desertification, water resources, forestry, biodiversity, oceans, ice, and awareness. For more information on eligibility, selection criteria and the application process please log on to <http://www.planet-action.org/web/134-call-for-projects.php>

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Employment Opportunities

SNIT Website lists companies related to geospatial information and bidding

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

SNIT website features a new special section where companies involved in geospatial information may publish their data. The objective of this initiative, explained the Executive Secretary of the institution, Cristian Aqueveque, is to create a space for dissemination to the state and private institutions who visit the Web site, including a complete list of companies related to this field. Similarly, this section will include biddings on products or services demanded by GIS or geoinformatics State organizations. The industry companies interested on publishing their data may contact: snit@mbienes.cl

Global Land Tool Network (GLTN)

Source: <http://www.fig.net/>

Call for Expression of Interest: National and International Consultants. The purpose of this announcement is to form a roster of candidates for consultancy assignments as need arises in the Global Land Tool Network (GLTN) as hosted by UN-HABITAT. Full announcement as a [PDF file](#). Closing Date: **15 October 2009**



Job: Geography - University of Oklahoma

Source: Gregory Knapp



The Department of Geography at the University of Oklahoma (<http://geography.ou.edu/>) invites applications for a nine-month, tenure-track faculty position. Appointment may be made at the rank of Assistant Professor or Associate Professor, depending on qualifications. Post-doctoral experience desirable but not required. Salary commensurate with experience. The start date is August 16, 2010 but an earlier starting date may be possible if mutually beneficial. Ph.D. required at time of appointment. The Department seeks an outstanding researcher and teacher who applies Remote Sensing and GIS to the study of environmental resources or human–environment relationships. Potential fields of scientific investigation could include, but are not limited to: cultural and indigenous geographies; renewable energy and sustainable development; and natural resource management. Demonstrated ability to secure external funding is an

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advantage. Ability and willingness to teach undergraduate and graduate level courses in both Remote Sensing and GIS are required. A normal teaching load is two courses per semester. An application should include a letter of interest describing the applicant's views on teaching, research and development, and outreach; a complete curriculum vitae or resume; and the names and email addresses of three references. Applications should be sent electronically to Dr. Scott Greene, Search Committee Chair at igreene@gcn.ou.edu. Review of applications will begin on **October 15th** and continue until the position is filled.

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Other

Regional Forum Mitch + 10

Source: ISDR Highlights, July 2009



International Strategy for **Disaster Reduction**

On the occasion of the 10th anniversary of the disastrous Hurricane Mitch, the regional forum "Mitch + 10" was held in Guatemala City from 21-23 July, aiming at drawing up a Central-American risk management policy. The President of Guatemala, Alvaro Colom, inaugurated the event and emphasized the country's achievements in recovery and strengthening the legal framework. Representatives from Central American countries, NGOs, UN/ISDR (International Strategy for Disaster Reduction in Latin America and the Caribbean), the Central American Coordination Center for the Prevention of Natural Disasters (CEPREDENAC), academia, civil society, the World Bank and the government of Guatemala participated in the regional panel on risk management and seven round tables. The findings of the latter served as recommendations for CEPREDENAC's policy, and ranged from regional integration and the need for alignment via climate change and DRR to reducing vulnerabilities with regard to critical infrastructure. An overview of outcomes of the Regional Platform of The Americas and the main results of the Global Platform was also given, and the Global Assessment Report was launched. Guatemala's National Platform launch was announced for September. For more information and the final declaration of the forum please visit:

www.unisdr.org/english/events/v.php?id=8963 or
www.sica.int/busqueda/busqueda_basica.aspx?IdCat=3&IdMod=2&IdEnt=22

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Americas: Conferences, SDI Events – Year 2009

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[Year 2010](#) January February March April May June July August [September](#) [October](#) [November](#) December

SEPTEMBER 2009		
1-2 <i>*NEW*</i>	Indianapolis IN, USA	2009 GIS Conferences and User Groups
1 <i>*NEW*</i>	Concord NH, USA	Creating Effective Web Maps
2 <i>*NEW*</i>	Augusta ME, USA	Creating Effective Web Maps

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7-11	Uberlândia MG, Brazil	II International Congress and IV National Symposium on Geography of Health / <u>http://www.geosaude.com.br/</u>
8 *NEW*	Waterbury VT, USA	Creating Effective Web Maps
8-11	Córdoba, Argentina	1st National and International Congress on Cadastre in Argentina: Cadastre as a Base for Strategic Development Planning for the Peoples" / 2nd Provincial Meeting on Cadastre – Cordoba: Cadastre as Information Source, Fostering Juridical Security and Social Equity
8-11	Santa Rosa, La Pampa, Argentina	2nd Geography Congress of National Universities
9-10	Washington DC, USA	Gov 2.0 Summit: The Platform for Change
9-11 *NEW*	Frankfort, KY USA	Kentucky Geospatial Summit 2009
10-11	Regina SK, Canada	ESRI Regional User Conference
13-15	Albuquerque NM, USA	IMTA (Americas) Conference & Trade Show 2009
13-16	Columbus OH, USA	APWA's 2009 International Public Works Congress and Expo
13-17	Houston TX, USA	GIS for Oil & Gas Conference and Exhibition
14-16	National Harbor, MD, USA	25th Annual Air & Space Conference and Technology Exposition / <u>http://www.afa.org/events/conference/2009</u>
15 *NEW*	Boston MA, USA	What's New In MapInfo Professional v10
15-17	Loveland CO, USA	GIS in the Rockies
15-18	São Paulo SP, Brazil	First International Congress of Underground Environment / <u>http://www.abas.org/cimas/ - cimas@abas.org</u>
16 *NEW*	Rochester NY, USA	Creating Effective Web Maps
16-18	Denver CO, USA	GIS in the Rockies
16-18 *NEW*	Columbus OH, USA	2009 Ohio GIS Conference
17 *NEW*	Houston TX, USA	Mapping Our Pipeline Future
17 *NEW*	Online, USA	RSVP for Online Certificate in Geographic Information Systems Online Information Session
17 *NEW*	Buffalo NY, USA	Creating Effective Web Maps
17-18	Edmonton AB, Canada	ESRI Regional User Conference
21-22	Altamonte Springs FL, USA	2009 Central Florida GIS Workshop
21-23	Nashville TN, USA	2009 ESRI Health GIS Conference
22-23	Montréal QC, Canada	ESRI Regional User Conference
22-23	Plymouth MI, USA	PLM Road Map 2009
22-24	San Jose CA, USA	MetaPlaces09; Beyond Location and Context
22-25 *NEW*	Savannah GA, USA	ION GNSS 2009
Sept. 27 – Oct. 4	Morelia, Michoacán, México	Multidisciplinary International Volcanology Congress to Commemorate the 250th Anniversary of Volcán Jorullo's Birth in Michoacán, México / <u>csiebe@geofisica.unam.mx / m.guilbaud@geofisica.unam.mx / qbocco@ciga.unam.mx / mtramirez@berkley.edu / vqmonroy@zeus.umich.mx</u>
28-29	Vancouver BC, Canada	ESRI Regional User Conference

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28-30	Piracicaba-SP, Brazil	First Symposium on GIS as a tool for environmental solutions of rural and urban areas / http://www.institutoaf.org.br/index.htm / geral@institutoaf.org.br
Sept. 29 – Oct. 2	Quito, Ecuador	UN-SPIDER Regional Workshop: "Space Applications for Disaster Risk Management and Emergency Response in Latin America"
Sept. 29 – Oct. 2	Anaheim CA, USA	URISA's 47th Annual Conference & Exposition
Sept. 30 – Oct. 1	Penticton BC, Canada	ESRI Regional User Conference
30	São Paulo – SP, Brazil	1001 Utilities from satellite images - Discover how orbital and aerial images can extend the results of your company
Sept. 30 – Oct. 2	Buenos Aires, Argentina	First Latin American and Caribbean gvSIG Users Working Days: Cooperating to Grow / jornadas.latinamericanas@gvsig.org
Sept. 30 – Oct. 2	Santa Catarina, Brazil	CoastGIS 2009, V Congress on Planning and Management of Coastal Zones of the Portuguese-speaking countries / contato@coastgis.com.br

OCTOBER 2009

4-7	Campos Do Jordão, São Paulo, Brazil	Latin American Conference IALE 2009 / "Landscape Ecology in Latin America: Challenges and Perspectives" Contact: Congress Secretariat and Information / ialebr2009@eventus.com.br
4-8 <i>*NEW*</i>	Cleveland OH, USA	2009 NSGIC Annual Conference
5-6 <i>*NEW*</i>	Naperville Illinois, USA	Illinois GIS Association Fall Conference 2009
5-6 <i>*NEW*</i>	Silver Spring MD, USA	GeoTech 2009: The Premiere Mid-Atlantic Imagery and GIS Conference
5-7	Curitiba, Brazil	Meeting of the Global Partnership on Cities and Biodiversity
5-7	Westin Westminster CO, USA	Location Intelligence 2009
5-9	Antigua, Guatemala	Iberoamerican Workshop on Geographic Information Systems applied to Renewable Energy
6-7	Toronto, Ontario, Canada	ESRI Regional User Conference
6-9	Santa Maria RS, Brazil	7th Working day on Remote Sensing Education in the frame of Mercosur , http://www.ltid.inpe.br/selper/ / tania@ltid.inpe.br
6-10	Bogotá D.C., Colombia	IV Ibero-American Congress on Development and Environment / http://www.cisdaiv.unal.edu.co/ Contact: María Andrea García Valencia, Nohra León y Norma Sabogal / infocisdaiv@javeriana.edu.co , documentocisdaiv@javeriana.edu.co , cursocisdaIV@unal.edu.co
7 <i>*NEW*</i>	Washington DC, USA	Emerging Technology Summit V: Spatial Law
7-9	Bogotá, Colombia	ESRI Latin American User Conference / www.procalculoprosis.com/lauc09/
8-9 <i>*NEW*</i>	West Palm Beach FL, USA	16th Annual South Florida GIS Expo
8-25	Buenos Aires, Argentina	13th World Forestry Congress
10-15	Winnipeg, Canada	ESRI Regional User Conference
11-14	Atlanta GA, USA	2009 Electric & Gas User Group (EGUG) Conference / www.esri.com/egug
11-15	San Francisco CA, USA	Oracle Open World
12-16 <i>*NEW*</i>	Sunriver OR, USA	2009 NW GIS User Group Conference

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13-16	SJ Campos, SP, Brazil	Workshop on Space Weather / Information: Hisao Takahashi / hisaotak@laser.inpe.br
15-16	Winnipeg MB, Canada	ESRI Regional User Conference
16-17	Miami FL, USA	Mapping Florida Communities: An Introduction to GIS & Community Analysis - One Day Workshops
16-19	San Antonio TX, USA	ASPRS/MAPPS 2009 Fall Conference / asprs@asprs.org
18-21	San Antonio TX, USA	GEOINT 2009
19-20	Caracas, Venezuela	WG VI/5 Workshop "Airborne Laser Scanning & Data Processing" / http://www.fii.org/fii/html/jornadas.html / Contact: Emmanuel Baltsavias(Chair WG VI/5) / manos@geod.baug.ethz.ch
19-23	Aguascalientes, México	2009 National Geography Convention , Further information: http://mapserver.inegi.org.mx/geografia/espanol/eventos/cng2009/convencion.geografia@inegi.org.mx
19-23 <i>*NEW*</i>	Pueblo CO, USA	ESRI Southwest User Group Conference 2009
19-23	Florianópolis SC, Brazil	Geography: Teaching and Performance / http://www.simgeo2009.cjb.net/simgeo2009@gmail.com
20-21	Ottawa, Ontario, Canada	ESRI Regional User Conference
21	São Paulo, Brazil	InfoGEO and InfoGPS Seminar – Transportation Management / http://www.mundogeo.com/seminarios/GF/ - seminario@mundogeo.com
21-22	Caracas, Venezuela	3rd National Working Days on Geoinformatics
21-23	Pueblo CO, USA	ESRI Southwest User's Group Conference - 2009
23-24	Tallahassee FL, USA	Mapping Florida Communities: An Introduction to GIS & Community Analysis - One Day Workshops
25-27 <i>*NEW*</i>	Lake Placid NY, USA	25th Annual New York State GIS Conference
25-29	Washington, DC, USA	8th International Semantic Web Conference (ISWC 2009)
26-30	Quito, Ecuador	19th General Assembly and Technical Consultative Meeting of PAIGH / http://www.ipgh.org/19-Asamblea-General/default.htm
27-30	Popayán, Colombia	XVIII Colombian Congress of Geography / Contact: Martha Martínez Rubiano / ccgeografia2009@unicauca.edu.co / ccgeografia2009@gmail.com .
27-28 <i>*NEW*</i>	Austin Texas , USA	Smart Grid America Forum
28-29	Halifax NS, Canada	ESRI Regional User Conference
28-31	Chihuahua, Mexico	6th Symposium on Geography Teaching in Mexico, Chihuahua 2009 Contact: Álvaro Sanchez Crispin / asc@igg.unam.mx

NOVEMBER 2009

2-6	Quebec, Canada	ISO/TC 211 Meeting week
2-13 <i>*NEW*</i>	Foz do Iguazu, PR, Brazil	International Summer School on Climate Change of Land Cover and Hydroclima the River Plate Basin
3-4	Calgary, Alberta, Canada	2009 GIS for Oil & Gas Calgary Conference / qita.org/events/oqca/2009/index.asp
3-4	St. John's NL, Canada	ESRI Regional User Conference
3-4	Baltimore MD, USA	Smart Grid Road Show
4-6	Tucson AZ, USA	AGIC 2009: Geospatial Education and Training Symposium
4-6	Seattle WA, USA	17th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems (ACM GIS 2009)

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5	Orlando FL, USA	Mapping Florida Communities: An Introduction to GIS & Community Analysis - One Day Workshops
7	Jacksonville FL, USA	Mapping Florida Communities: An Introduction to GIS & Community Analysis - One Day Workshops
7-11	Corumbá MS, Brazil	2° GeoPantanal – Symposium on Swamp Geo-technologies
9-12	Gramado, Brazil	3rd International Workshop on Semantic & Conceptual Issues in GIS (SeCoGIS2009) in conjunction with the 28th International Conference on Conceptual Modeling (ER2009) / Contact: Prof. Esteban Zimanyi / estebanzimanyi@gmail.com
9-20 <i>*NEW*</i>	La Antigua, Guatemala	XII Mapping Course / http://www.cifantigua.org.gt / cursos.iberamerica@fomento.es
10-12	St. Petersburg FL, USA	2009 GIS in Transit Conference
10-13	Ouro Preto, Brazil	3rd Portuguese-Brazilian Symposium on Historic Cartography
14-19	San Antonio TX, USA	MAPPS/ASPRS Joint Specialty Conference
15-21	Santiago, Chile	ICC2009- 24th International Cartographic Conference 2009 / http://www.icc2009.cl/
15-21	Kingston, Jamaica	Geography Awareness Week
16 <i>*NEW*</i>	New York NY, USA	GIS 3.0: Geospatial Intelligence, Social Data, and the Future of Public Health Preparedness and Response
16-18 <i>*NEW*</i>	Huntsville AL, USA	Rocket City Geospatial Conference 2009
16-19	San Antonio TX, USA	ASPRS/MAPPS 2009 Fall Conference
17-18 <i>*NEW*</i>	Washington D.C, USA	GEO-VI: Sixth Plenary Session of the Group on Earth Observations
18-20	St. Croix, Virgin Islands	5th Annual GIS Conference
19-20 <i>*NEW*</i>	Houston TX, USA	Houston Area GIS Day 2009
Nov. 29 th - Dec. 4 th	Las Vegas NV, USA	Autodesk University 2009 Exhibition

DECEMBER 2009

1-4	Las Vegas NV, USA	Autodesk University
7-11	Mountainview CA, USA	OGC Technical and Planning Committee Meeting
14-18	San Francisco CA, USA	Fall Meeting AGU / http://www.agu.org/meetings.shtml

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JANUARY 2010

5-7	Cuenca, Ecuador	Sixth International Conference on Environmental, Cultural, Economic and Social Sustainability
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FEBRUARY 2010

10-15	St. Maarten, Netherlands Antilles	2nd International Conference on Advanced Geographic Information Systems, Applications, and Services / GEOProcessing 2010
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MARCH 2010

23-25	Tampa FL, USA	DistribuTECH 2010 Conference & Exhibition
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APRIL 2010

18-22	Kansas City MO, USA	MAGIC 2010 Symposium
25-29	Phoenix AZ, USA	GITA's 2010 Geospatial Infrastructure Solutions Conference
26-30	San Diego CA, USA	ASPRS Annual Conference / asprs@asprs.org

JUNE 2010

16-18	Calgary, Canada	Commission I Symposium "Image Data Acquisition - Sensors & Platforms" / Contact: Naser El-Sheimy elsheimy@ucalgary.ca
21-25	Santo Domingo, Dominican Republic	International Meeting "Virtual Educa" – 2010

JULY 2010

26-30	Los Angeles CA, USA	SIGGRAPH 2010
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SEPTEMBER 2010

19-24	Montreal, Canada	IWA World Water Congress and Exhibition
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OCTOBER 2010

18-22	Singapore, Singapore	GSDI 12 World Conference 2010: Realizing Spatially Enabled Societies
18-22	Orlando FL, USA	E-Learn 2010

NOVEMBER 2010

16-18	Orlando FL, USA	Commission IV Symposium "Geodatabases & Digital Mapping" / Marguerite Madden (President Commission IV) / mmadden@uga.edu
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