

# Global Spatial Data Infrastructure Latin America and the Caribbean Newsletter

SDI-LAC

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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

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](mailto: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>

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

Luis Andrade	Officer of the Representation of OAS in Mexico D.F., Mexico
Doris Berns	Accounting Assistant, Regional Research Institute, USA
Santiago Borrero	Secretary General, Pan-American Institute of Geography and History, PAIGH, Mexico
Arturo Brun-Martínez	Architect, Bogota, Colombia
Lilian Colonel	Secretary, Organizing Committee and Cartographer, Fifth Cartographic Science Congress, Buenos Aires, Argentina
Yoshiaki Honda	Administrative Secretary, ISPRS Technical Commission VIII, Center for Environmental Remote Sensing, Chiba University, Tokyo, Japan
Jan Laarman	Terra Viva Grants, Echebrune, France
Stella M. Manconi	President, Organizing Committee, Fifth Cartographic Science Congress, Buenos Aires, Argentina
Jacqueline Murphy	Assistant to the Director, Department of International Development, Community, and Environment (IDCE), Clark University, Worcester, MA, USA
Doug Nebert	Senior Advisor, Geospatial Technology at Federal Geographic Data Committee, Washington D.C., USA
Silvane Paixão	Department of Geodesy and Geomatics Engineering, University of New Brunswick, Canada
Carla Valdospinos	UNIGIS Administration, Universidad San Francisco de Quito, Ecuador

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## Haiti Devastated

### Haiti devastated; support is needed now for its redevelopment

Source: Santiago Borrero



Gina Porcena Meneus

Collapse of the National Geo-Spatial Centre of Haiti has resulted in the deaths of several geographers. The 12 January earthquake that destroyed the major part of Port-au-Prince also destroyed the headquarters of the National Centre of Geo-Spatial Information (CNIGS), also the HQ of the national chapter of the Pan-American Institute of Geography and History (PAIGH) in Haiti .

The PAIGH Secretary-General has been in contact with various official information sources of the UN and the OAS in Haiti and with that information, confirms that at least five professionals working in the Centre have died, including Gina Porcena Meneus.

Haiti has faced tremendous challenges in meeting its objectives for geography and cartography. With the assistance of the European Union and other sources of international cooperation, Gina Porcena assumed the direction of the Centre and her work has been recognized for advancing the Haitian capacity for geographic and spatial information - which a good part has now been lost with the destruction of the building.

Gina, mother of two daughters, has been associated with PAIGH since 2006, when she participated as the Haitian delegate to the 39th annual meeting of PAIGH's executive board, in Viña del

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Mar, Chile. There, together with her colleague Maria Luisa Castello, Chairwoman of the PAIGH's National Section in Brazil, she took part in the Closing Session, and on behalf of the delegates she expressed:

"We consider that in a Pan American institute there are basic principles that must be promoted: solidarity, exchange, respect and mutual support among the Member States. If these principles are not accomplished in a political and economic level in the region, in this globalized world and with so many inequities among the states, we therefore think these may be promoted in the technical and scientific level of the countries of the PAIGH."

Since then, Gina never missed the statutory meetings of the Institute and in the most recent one, the 19 General Assembly held in Quito, Ecuador in October 2009, besides sharing her joy, she announced her desire to recompose the National Section. To this end, she designated Elizabeth Farah François as the Executive Secretary of the National Section and also she offered the CNIGS to host the 45 Meeting of the Directing Council to take place in 2014. Farah is a survivor of the earthquake.

The chiefs and representatives of the national development organizations meeting as the "United Summit for Haiti", in Santo Domingo on 18 January 2010, have agreed to the formation of a working group that will have its objective as making a strategic plan for the reconstruction of the country, taking as its main goal support for the people of Haiti, as well as meeting the UN's Millennium Goals for Haiti. Thus, the PAIGH as member of the Interamerican Committee for Reduction of Natural Disasters (CIRDN), and responsible for the continental objectives for the Committee's goals, will be involved in the work and objectives of the PAIGH's Panamerican Agenda, 2010-2020, including wherever possible, its support for the re-establishment of Haiti's National Centre of Geo-Spatial Information.

With this proposal, the PAIGH is now undertaking this objective with special attention and is calling upon the community of like-minded people - especially members of the Panamerican Network of Professionals (RPP), to support these ideas and initiatives. Starting from today, the Forum for the Agenda are inviting responses for the following question: What ideas, alternatives and proposals might the PAIGH consider in order to support the re-activation of Haiti's CNIGS and the work of its Academy of History and Geography? Send your replies to: [agendaipgh@ipgh.org](mailto:agendaipgh@ipgh.org) (Thanks to Dr. John Newcomb for the English translation)

### Haiti Spatial Data Infrastructure (Haiti SDI) Contribution

Source: Doug Nebert

On January 21, 2010, volunteers from CubeWerx and The Carbon Project announced that free mapping data



coordinated from OpenStreetMap (OSM), the United Nations and other sources, have been presented in an open information network for the nation of Haiti. Much of the development of their freely-available software has been supported through FGDC Cooperative Agreements Program awards in prior years. The Haiti Virtual Spatial Data Infrastructure (Haiti SDI) is a public set of Web Services and data that may be updated by anyone and used in Google Earth, OpenStreetMap, the Gaia SDI Platform and other applications to support relief and rebuilding. Below, is a reference to their press release. I would like your help in reaching the various assistance agencies who would benefit from this data

and may be able to contribute additional data or updates for coordinated humanitarian assistance. Please send this information along to your colleagues at the Red Cross, UN, and other groups who may find this of interest.

[CubeWerx and The Carbon Project Contribute a Virtual Spatial Data Infrastructure \(SDI\) for Haiti](#)

The Haiti SDI is based on international standards from the Open Geospatial Consortium, Inc. (OGC®): the OGC Web Map Service (WMS) and OGC Web Feature Services (WFS) Interface Standards. The Haiti SDI provides four capabilities:

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[Haiti SDI Cascading WMS](#) – A unique service that provides a single access point for applications like Google Earth, Gaia SDI Platform and OSM editors that implement WMS. The service works by aggregating WMS deployed in the last few days into one easy-to-use resource - including New York Public Library, University of Cincinnati, CubeWerx framework WMS, GeoEye and DigitalGlobe imagery, government data and more.

[Haiti SDI OSM WFS](#) – A data service that refreshes from OpenStreetMap sources (Geofabrik) every hour and deploys the data as OGC WFS so any application may instantly connect to the most up-to-date information from the OSM community.

[Haiti SDI UN WFS](#) – A data service that provides United Nations framework data through an open interface that implements the WFS standard. United Nations framework data includes Boundaries, Hydrography, Transportation, Locations, and Population information.

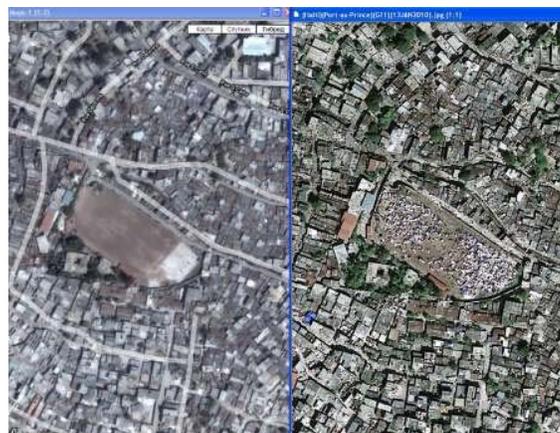
[Haiti SDI VGI WFS](#) – A Volunteered Geographic Information (VGI) service that enables anyone to add to the information described above, contributing their own Haiti framework data and information about emergency operations, locations, and points of interest data. This service employs OGC standards based tools such as the Gaia WFS-T Extender.

"We hope the Haiti SDI will help the people of Haiti and everyone working to assist them," said Jeff Harrison, coordinator for the Haiti SDI project. "We are planning coordination sessions in the coming days and working to make sure this resource is openly available to as many people as possible." All OpenStreetMap, United Nations and Volunteered Geographic Information for Haiti SDI are freely available under the terms of the Creative Commons Attribution-ShareAlike 2.0 license. Haiti SDI services are being posted on <http://www.crisiscommons.org/> as often as possible. The Haiti SDI services are evolving rapidly and updates are being posted on The Carbon Project's blog at <http://carboncloud.blogspot.com/> and [www.Twitter.com/JeffHarrison](http://www.Twitter.com/JeffHarrison). Please contact [info@thecarbonproject.com](mailto:info@thecarbonproject.com) if there are specific information needs.

### [Satellite Maps of Haiti Earthquake](#)

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

Satellite images of the Port-au-Prince districts, damaged as a result of the 12th January earthquake, are in free access. Maps have been prepared by SCANEX specialists based on the GeoEye-1 VHR data on behalf of the Emercom of Russia. The highly-detailed EROS-B image (0.7 m) of the Haiti capital area, damaged as a result of the destructive earthquakes on 12th January was published for free access using the GeoMixer API software interface. The space image was acquired on 17th January by the order of SCANEX RDC placed to the ImageSat Int. (Israel) Operator on behalf of the Emercom Russia. The ScanEx Center specialists using the proprietary software ScanEx Image Processor conducted the processing and analysis of data. The image is provided by the international organizations UNOSAT and UNITAR. Over the past years we start to witness international efforts of the organization and institutions of different countries in gathering satellite imagery and distribution of satellite data products. For example, the web-site of the international UNOSAT and the UNITAR UN Institute posted a series of satellite maps, enabling to analyze and estimate the scale and geography of destructions in the city of Port-au-Prince. To the first time, among the materials published, the maps created at SCANEX Center became available. The first international campaign on taking satellite images of the emergency area was waged in 2004 after the disastrous tsunami in the Indian Ocean. Nowadays, space images enable to perform a comprehensive monitoring of the territories, to assess consequences and to take decisions. SCANEX Center will continue to monitor the earthquake aftermath using satellite images. Website: [http://www.scanex.ru/en/news/News\\_Preview.asp?id=n016417](http://www.scanex.ru/en/news/News_Preview.asp?id=n016417)



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## Haiti GIS Viewer

Source: CaribbeanGIS

With the dire situation in Haiti there's a lot of spatial data including hi-resolution satellite imagery and from-the-ground vector data being generated to support the emergency humanitarian effort. The [ESRI GEOSS/ GEO Viewer](#) is doing a great job of updating what it offers and providing an integrated view from the flood of data. Its use of up-to-date data, via RSS feeds, and its smooth interface makes it an excellent visualization tool for both GIS Specialists and wider users such as the news media. It is a website that allows for the search of data across multiple data portals and has analytical capabilities, such as population estimations. It is currently focused on the disaster area of Haiti. There is a GeoRSS feed that will show the locations of the earthquakes there – from the USGS Earthquake data. The site is being enhanced with additional data and imagery to support humanitarian response operations. The site is built using the ArcGIS Server API for Flex Sample Viewer, which is a free API for non-commercial use – which any organization can download and use from here: <http://resources.esri.com/arcgisserver/apis/flex/>. Additional widgets are available from the code gallery here: <http://resources.esri.com/arcgisserver/apis/flex/index.cfm?fa=codeGallery> [With collaboration of Carmelle Terborgh on the details]

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## SDI News, Links, Papers, Presentations

### GSDI 12 Call for Papers - Singapore October 2010



GSDI 12 World Conference - Singapore 19-22 October 2010

Theme: Realising Spatially Enabled Societies <http://www.gsdi.org/gsd12>.

The Call for Papers is listed below and may be found also with all web links active at <http://www.gsdi.org/gsd12/papers.html>

Abstract Deadline: **1 April** 2010.

Book Chapter Submission Deadline: **15 March** 2010.

Refereed Journal Special Issue Deadline: selected from conference full paper submissions

#### CALL FOR PAPERS

This joint conference is hosted by several organizations that are inviting presentations covering the full range of practice, development and research experiences that advance the practice and theory of spatial data infrastructure development and spatial technology advancement. Submissions accepted through this call for papers will be orally presented in the parallel session tracks shown in the Program Overview.

GSDI 12 will support three primary forms of publication:

- (1) A normal conference proceedings with abstracts and full articles (non-refereed and refereed), published on a CD,
- (2) A pre-conference published book of fully refereed articles, and

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- (3) A post-conference special edition of the *International Journal of Spatial Data Infrastructures Research (IJSDIR)* with full articles selected from the proceedings and then fully refereed and revised after the conference.

## (1) CALL FOR CONFERENCE PROCEEDINGS SUBMISSIONS

Abstracts should be 250-500 words in length and will be reviewed by the GSDI-12 Conference Program Committee. Authors are limited to a maximum of two conference paper abstract submissions, whether as lead or secondary author.

Presentations will be organized in the following tracks, but authors are invited as well to submit presentations that fall outside of these topical tracks. The tracks identified by number are as follows:

1. Experiences in developing spatial data infrastructure initiatives, projects and programs at the following levels: local and regional, national, multi-national, and global
2. Applications arising from the use of improved spatial data infrastructure or spatially enabling citizens or government including applications related to: poverty alleviation; environmental sustainability and energy; e-government; e-commerce; disaster prevention, management and response; health, safety or public order; transportation; administering or managing property (cadaster), land uses, housing, or spatial planning; managing natural resources such as oceans, forests, and rivers; consumer products (e.g. navigation and gaming); other applications
3. Geographic data issues
4. Geographic metadata, maintenance and updating issues and initiatives
5. Registries, portals, clearinghouses and archives
6. Web-based services for discovery, access, processing and product generation
7. Standards and interoperability issues
8. Legal, ethics, policy, and economic issues
9. Institutional, administrative, and management issues
10. Emerging participatory, inclusive and collaborative approaches in developing content and infrastructure (e.g. participatory GIS, geoweb tools, data commons, collaborative commercial and open source software production approaches, volunteered geographic information, global geo efforts)
11. Capacity building and education, Knowledge Exchange (e.g. among research, development, education and professional practice communities as well as throughout society)
12. Basic and applied research methods and results
13. Other

High-quality submissions will be accepted for presentation at the conference. Abstracts and follow-up full articles will be published in a conference proceedings volume to be made available on CD. For follow-up full paper submissions, authors retain copyright in their work but will be required to agree to a Creative Commons License to help ensure continued global access to their work over time. All publications produced for the conference, including abstracts, full papers and presentation slides, will be openly archived eventually at <http://gsdi.org/gsdiConferences>

### Proceedings Submission Deadlines

Deadline for submission of abstracts: **1 April 2010**

Deadline for submission of full papers (if author wants consideration as a refereed paper in the proceedings): **1 April 2010**

Notification of acceptance or rejection for oral paper session and poster presentations: 1 June 2010

Notification of acceptance or rejection for refereed proceedings article: 1 June 2010

Deadline for submission of full papers for proceedings (non-refereed but still considered for journal special issue): 1 July 2010

Deadline for full conference registration payment for all oral and poster presenters: 1 August 2010

GSDI-12 conference dates: 19-22 October 2010

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## Abstract Submission Process

**Web Submission of Abstract:** Please submit your 250-500 word abstract through the GSDI-12 Conference Submission Management System. Do NOT upload your abstract. Rather cut and paste your abstract into the form window for the abstract. You have the option as well of uploading your full paper if the paper is ready. See below the final paper format requirements. You may return to the site at any time to upload a new or revised paper. Save the automated e-mail you will receive that contains your password. If you forget your password do NOT make a new submission but rather contact the administrator.

**E-mail Submission of Abstract:** We highly encourage submission through the web. However, if your web access is limited and you would prefer to make a submission by e-mail, then please do the following. Include paper title, author's name, affiliation, mailing address and e-mail address followed by the text of the abstract. At the very end on a separate line, indicate the number of the track listed above in which your presentation might best fit. On a further separate line indicate whether you prefer an oral or poster presentation. The abstract submission should be left justified in entirety, written in English, 12-point, Times font, single-spaced with no bold, italic, or underlined text. Submit the abstract to [astevens@gsdi.org](mailto:astevens@gsdi.org) with an email subject line of GSDI-12 Abstract Submission by <your last name>. The administrator will then submit it to the web site system for you.

**Acceptance of Abstract:** If your abstract is accepted by the review team and you pay the conference registration fee by the specified deadline, your submission will be scheduled in an appropriate session for oral presentation at the conference. A limited number of additional submissions will be accepted for the Poster Forum and Reception and if openings occur in the oral program poster presenters will be invited to fill the open speaking slots.

## Final Paper Submission Process

If your abstract is accepted for an oral or poster presentation, you are encouraged to submit a full paper before **1 April 2010** for inclusion in the GSDI-12 Conference Proceedings. The full article should be submitted in Word or other editable form (NOT pdf) and should adhere to the sample GSDI manuscript template. For this conference the GSDI manuscript template should be considered synonymous with the Manuscript Template of the International Journal of SDI Research. To submit through the web interface, return to the same GSDI-12 Conference Submission Management System and follow the instructions and options for submitting the final version of your full paper. Your previously received automated e-mail contains your password. If you forget your password do NOT make a new submission but rather contact the administrator. Thus, send the paper to [astevens@gsdi.org](mailto:astevens@gsdi.org) with an e-mail subject line of GSDI-12 Abstract Submission by <your last name>.

## Publication and Licensing Issues

Abstracts and follow-up full articles will be published in a conference proceedings volume to be made available on CD and later archived on the Web. Authors retain copyright in their work but through the act of submission to this conference are agreeing to a Creative Commons Attribution 3.0 License for their work to help ensure continued global access to the work over time. All publications produced for the conference, including abstracts, full papers and presentation slides will be openly archived eventually at <http://gsdi.org/gsdiConferences>

## (2) CALL FOR ARTICLE SUBMISSIONS FOR THE FULLY REFEREED BOOK

Full papers, consisting of 5,000-word manuscripts, will be thoroughly reviewed by at least three members of the international GSDI-12 Peer Review Board. Manuscripts should describe original work that has not been published before.

Papers must be written in English, include an abstract, conform with the sample manuscript template and be submitted electronically. High-quality submissions will be accepted for presentation at the conference and will be published in book form as a refereed conference document tentatively titled *Spatially Enabling Society: Research, Emerging*

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*Trends, and Critical Assessment.* Authors will retain copyright in their work but will be required to submit a Creative Commons License to help ensure continued global access to their work over time.

Any submissions not accepted for the book will be forwarded for consideration under the abstract review process for the conference and for the Special Issue of the International Journal of Spatial Data Infrastructure Research. The special issue will accommodate scholarly articles that may be more case history based.

Full-length paper submissions for the book will be expected to address fundamental theory or research in any area of spatially enabling governments or society or any related area of spatial data infrastructure advancement. Submissions in this category might:

- ❖ Test or analyze innovative approaches in addressing technical, legal, economic, or institutional challenges in developing spatial data infrastructure or advancing spatially enabled societies;
- ❖ Critically assess current spatial data infrastructure and spatial enablement initiatives;
- ❖ Document and analyze successes and challenges to be found in standards efforts, data harmonization efforts, and case histories;
- ❖ Describe conceptual models that incorporate emerging or future technological, institutional, economic, legal or combined solutions in overcoming spatial data sharing or spatial enablement impediments;
- ❖ Compare or analyze existing alternative approaches or models for planning, financing, and implementing SDI or related initiatives in different countries or regions of the world and assess the effects of policy and technical choices in addressing cultural, social and economic issues;
- ❖ Assess whether SDI or spatial enablement projects are achieving programmatic goals or broader goals such as supporting national economic competitiveness, increasing the efficiency and effectiveness of government and advancing health, safety, and social well-being;
- ❖ Critically examine best practices in terms of their policy, technological, institutional and financial approaches and their ultimate effects on improving efficiency, effectiveness, and equity;
- ❖ Identify and assess the implications of various practices and approaches on local, state, provincial, national, transnational and global stakeholders with a particular emphasis of ramifications on developing nations.

The article must adhere to the specifications set forth in the Manuscript Template of the International Journal of SDI Research.

### Full Article Submission Deadlines for Peer-Reviewed Book

Deadline for Submission of Full Papers for Consideration in the Book: **15 March** 2010

Notification of Acceptance or Conditional Acceptance to Authors: 15 May 2010

Deadline for Submission of Revised Papers and All Signed Forms: 15 June 2010

Deadline for Full Conference Registration Payment for All Presenters (at least one co-author): 1 August 2010

GSDI-12 Conference Technical Sessions: 19-22 October 2010

Articles accepted for the book automatically are accepted for and must be presented by the author(s) at the GSDI 12 Conference.

If your paper has been accepted for the book, you must submit before 15 June 2010 the following required documents; the required signed forms that must be submitted with the final revised paper before 15 June 2010 include:

1. The revised version of the article accommodating the comments of the reviewers. Submit the revised article to the GSDI-12 Conference Submission Management System under the Re-Upload Paper link.
2. Please send an e-mail to [abbas@unimelb.edu.au](mailto:abbas@unimelb.edu.au) that contains a copy of the reviews. After each reviewer comment provide an explanation as to how that comment has been addressed and where in the paper the revision may be found. Alternatively, explain in detail why you believe a revision in this instance would be inappropriate.

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3. Signed copy of the Creative Commons Attribution 3.0 License (link forthcoming)
4. Letter of Agreement with Foreign Rights to the GSDI 12 Book publisher (link forthcoming)
5. Spreadsheet listing and documenting all Figures, Graphics, Maps, Tables and Datasets Used in the Article. (link forthcoming) Note: Because signed permissions for the use of graphics, photos, maps, charts, diagrams, tables, portions of tables or other significant extracts from other publishers may involve a lengthy process, we highly recommend that you refrain from copying materials from other published materials to the greatest extent possible. If another publisher decides to charge a royalty or other payment for a figure, image or extract of material, the author is responsible to make all such payments
6. Signed copyright permission form for any material that you extracted from the works of any other author or publisher. A new form for each source from which material was extracted (link forthcoming)

Revised articles that fail to adequately address the comments of reviewers as assessed by the editors or fail to meet required formatting requirements or deadlines will be dropped from the book at the sole discretion of the editors.

### Full Article Submission Process

**Web Submission:** Please submit your full article along with its abstract through the GSDI-12 Conference Submission Management System. Cut and paste the abstract into the form but also retain the abstract as part of the full paper.

**E-mail Submission:** We highly encourage submission through the web. However, if your paper is too large for the system, deliver it to [astevens@gsdi.org](mailto:astevens@gsdi.org) with an e-mail subject line of GSDI-12 Refereed Article Submission by <your last name>.

### (3) ARTICLE SELECTION FOR A SPECIAL ISSUE OF THE *INTERNATIONAL JOURNAL OF SPATIAL DATA INFRASTRUCTURE RESEARCH* (IJS DIR)

A post-conference special edition of the *International Journal of Spatial Data Infrastructure Research* (IJS DIR) will be published. Full articles submitted to the conference proceedings will be reviewed and a limited number will be invited for submission to a full refereeing process after the conference. Articles adhering to the length and topical areas described under (2) above will be of the highest priority for consideration for this post-conference refereed publication. After revisions in accordance with the critiques of reviewers, most of the invited articles are likely to be included in a special issue of IJS DIR. The final document needs to adhere to the Article Formatting Requirements of the International Journal of SDI Research.

Past Conferences: GSDI Association - <http://gsdi.org/gsdiConferences.asp>

### **UN-SPIDER conducts Technical Advisory Mission to Jamaica and participates in the 4th Caribbean Conference on Comprehensive Disaster Management**

Source: UN-SPIDER December 2009 Updates



The image shows the header and navigation menu of the UN-SPIDER website. The header features the United Nations logo on the left, followed by the text "UNITED NATIONS | UNOOSA | UN-SPIDER". To the right of this text are links for "Contact" and "Profile". Below the header is a blue banner with the text "United Nations Platform for Space-based Information for Disaster Management and Emergency Response" and "v0.7beta" in the bottom right corner. The navigation menu consists of several buttons: "HOME", "SPACE AID", "ADVISORY SUPPORT", "KNOWLEDGE BASE", "NETWORK", and "ABOUT US". To the right of the navigation menu is a search bar with a magnifying glass icon and links for "Advanced Search" and "Visual Globe".

During December 2009, UN-SPIDER conducted a Technical Advisory Mission (TAM) to Jamaica together with one expert from the Panama-based institute CATHALAC and one expert from the University of the West Indies in Trinidad and Tobago. The main purpose was to assess the current capacities of institutions regarding access and use of space-based information for disaster-risk reduction and response in order to suggest a variety of measures to strengthen such

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institutional capacities. The mission included meetings with representatives of more than 20 institutions from the Government, international organizations including the United Nations Development Program (UNDP), and academia, in particular the Planning Institute of Jamaica (PIOJ), the Office for Disaster Preparedness and Emergency Management (ODPEM), and the Spatial Data Management Division of the Office of the Prime Minister. The 4th Caribbean Conference on Comprehensive Disaster Management took place in Montego Bay, from 7 to 11 December, 2009. Bringing together more than 250 experts and practitioners from the Caribbean, Latin America, Europe, and the Pacific Islands, the conference served as a setting to celebrate the first Caribbean conference which was conducted in Jamaica in 1984. Recognizing the relevance of this regional conference, UN-SPIDER was represented by two staff members, and facilitated the participation of Carlene Boodoo, correspondent of SDI-LAC Newsletter for Trinidad and Tobago. For more information please log on to: [www.un-spider.org](http://www.un-spider.org)

### **gvSIG Association and Civil Association SOLAR Free Software of Argentina sign cooperation agreement**

Source: gvSIG Communication



**SOLAR**  
Software Libre Argentina

During the 5th gvSIG International Conference held in Valencia, Spain from 2 to 4 December, 2009 it was signed an agreement between the gvSIG Association and the Civil Association SOLAR Free Software of Argentina. gvSIG is a project for construction of free tools for geographical information management and analysis whose use has spread to over sixty countries. SOLAR, association of free software users and developers in Argentina, aims to promote the technical, social and political advantages of free software by promoting values such as equal opportunity, cooperation, solidarity, freedom and responsibility of the entire community, and provides support to individuals, groups, governmental and nongovernmental institutions and the wider community who seek to make decisions upon the use and / or replacement of software. LINUXMIL project, born within SOLAR, is the first project in Argentina to build a free operating dual system (civil and military). Through this cooperation agreement framework concrete mechanisms for the development of a Spatial Data Infrastructure are established, in order to provide geospatial data to support productive, social and defense activities within the framework of the Union of South American Nations (in Spanish UNASUR). Both associations have agreed to provide mutual technical assistance and cooperation. Among the first actions that will be held are the conformation of a working group, integrating staff from both organizations, and integrating gvSIG Desktop applications within official repositories of Debian and Ubuntu distributions. More information at: [www.gvsig.com](http://www.gvsig.com); [www.gvsig.org](http://www.gvsig.org); [www.solar.org.ar](http://www.solar.org.ar); [www.linuxmil.com.ar](http://www.linuxmil.com.ar)

### **Executive Secretariat of SNIT Initiates International Cooperation with the Government of Bolivia**

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

On first week of January 2010 activities framed by a cooperation agreed last December by the Minister of National Assets of Chile and the Minister of Planning Development of Bolivia began. During a visit to Bolivia in November last year, the Minister of National Assets of Chile pledged to support the Government of Bolivia on issues related to land information management, based on the experience developed by the National Territorial Information System of Chile (in Spanish SNIT). For this purpose, a delegation comprised by professionals of the Executive Secretariat of SNIT began activities between January 4 to 6 with a series of workshops and meetings in the city of La Paz, Bolivia. Activities started with a "Spatial Data Infrastructures, SDI" workshop, which aimed at providing professionals from the Ministry of Planning Development an overview on these initiatives and concrete implementation examples of the Chilean SNIT. More information [here](#).



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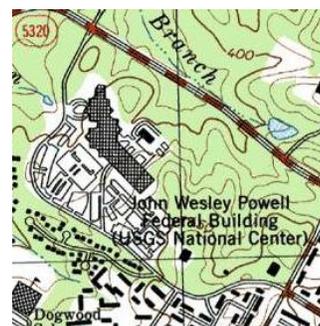
## [USGS Framework Web Feature Services](#)

Source: OGC News January 2010



[USGS Home](#)  
[Contact USGS](#)  
[Search USGS](#)

The US Geological Survey (USGS), as a key agent for development of the National Spatial Data Infrastructure (NSDI) [<http://www.fgdc.gov/nsdi/nsdi.html>], has focused on seven core "Framework Data" themes considered to be of critical importance to the NSDI: Geodetic Control, Orthoimagery, Elevation and Bathymetry, Hydrography, Cadastral, Governmental Units, and Transportation (Air, Road, Rail, Transit, Waterways). Three US Federal websites provide Framework Data and assorted discovery services and data sharing features: - [geodata.gov](http://geodata.gov) [<http://gos2.geodata.gov/>] is a geographic information system (GIS) portal, also known as the Geospatial One-Stop (GOS), that serves as a public gateway for improving access to geospatial information and data under the Geospatial One-Stop E-Government initiative.- Geospatial One-Stop (GOS) [<http://gos2.geodata.gov/>] -"implements the basic elements of the NSDI by providing an Internet portal ([www.geodata.gov](http://www.geodata.gov)) to facilitate data sharing for decision support systems and by encouraging partnerships across organizations."



-The National Map (TNM) [<http://nationalmap.gov/>]- "integrates base geographic data in partnership with content producers at all levels." Some of these implement the OGC Web Map Service (WMS) interface to enable Web applications to request graphical images of data. But now, in one of the first Web service based projects to distribute US national data sets, the USGS is offering prototype Framework Web Feature Services. Selected Framework data themes - Hydrography, Transportation and Governmental Units- have been redeployed by the USGS from their native database formats to services that implement the OGC Web Feature Service (WFS) Interface Standard and Geography Markup Language Encoding Standard for Simple Features (GMLsf) as well as the FGDC/ANSI Geographic Information Framework Data Content Standards. These services provide query and retrieval of specific Framework features and their attributes in a standard form. The query and retrieval can be performed by any Geographic Information System (GIS) or other geospatial application equipped with Web service interfaces that implement the same OGC standards. In addition, a Web Map Service (WMS) is provided to allow users to visualize the data content as a graphical image. The NSDI Framework Data Services also includes a Prototype WFS Gazetteer (WFS-G) [<http://frameworkwfs.usgs.gov/wfsg/>] consistent with ISO 19112 and GML Simple Features Profile (GMLsf) Level 0. The gazetteer gives users the ability to navigate through the available Framework Data using place names that correspond to or have a relationship to the GML-encoded spatial features. The current effort is an outgrowth of a National Spatial Data Infrastructure (NSDI) Cooperative Agreement Program (CAP) project and is a collaboration of geoLeaders, CubeWerx, The Carbon Project, EPA and USGS. This project is an important step towards fulfilling the vision of the NSDI as an operational set of NSDI Framework Data Services - a "system of systems" - based on ANSI and OGC standards.

## **Fifth Cartographic Science Congress, Argentina**

Source: Stella M. Manconi and Lilian Colonel

The Governing Board of the Argentine Association-Center and the Faculty of Engineering and Water Sciences of the Universidad Nacional del Litoral, call for the "Fifth Congress on Cartographic Science" which will run from June 28 to July 2, 2010 at headquarters of the School of Water Sciences of the Universidad Nacional del Litoral in Santa Fe City, organized by the Argentine Center and the Faculty. Technical sessions will be held on June 30, July 1 and 2, 2010, with training activities during June 28 and 29. The official Congress language is Spanish. Themes for the meeting are framed within the following groups: Cartography and Education; Cartography and Society; Cadastre for Integrated



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Land Management; Natural Resource Mapping; Web Cartography and Geoinformatics; Spatial Analysis, Interpolation and Compaction. Deadline for submission of full papers is **19 April 2010**. Materials must be sent on magnetic media, enclosing a copy for evaluation by the Academic Committee. Authors will be notified of the acceptance of their work from May 20, 2010. You may obtain further information at the Secretariat of the Argentine Center: Av Cabildo 381, C1426AAD Ciudad Autónoma de Buenos Aires; Phone: 54-11-4576-5576 int. 184, Monday, Tuesday and Thursday from 9 to 13 hours; E-mail: [eventos@CentroArgentinoDeCartografia.org](mailto:eventos@CentroArgentinoDeCartografia.org) Contact: [congresocienciartograficasfe@gmail.com](mailto:congresocienciartograficasfe@gmail.com)

### Canadian Geomatics Conference

Source: [info@geoconnections.org](mailto:info@geoconnections.org)



The Canadian Geomatics Conference (CGC) will be held in Calgary, Alberta, Canada on June 15-18, 2010. The theme of the 2010 event is "Convergence in Geomatics - Shaping Canada's Competitive Landscape" and conference streams will: explore the potential of geomatics, feature Canadian success stories, examine the strategic importance of geomatics to Canada's future, and consider how specific scientific and industrial developments and applications can enhance Canada's socio-economic well-being. Please note the special streams focusing on leveraging the Canadian Geospatial Data Infrastructure and Canada's success with Spatial Data Infrastructures. Further information regarding the conference and presentations is available at <http://www.geoconf.ca>.

### ISPRS Commission VIII Symposium countdown newsletter No.2

Source: Yoshiaki Honda by way of Santiago Borrero



We are pleased with presenting the International Society for Photogrammetry and Remote Sensing (ISPRS) Commission VIII (Remote Sensing Applications and Policies, 2008-2012) Symposium countdown newsletter No.2 to you. You can submit an abstract to the ISPRS Commission VIII Symposium, which will take place on August 9-12, 2010 at the Kyoto international Conference Center, Japan. Please note that the Deadline of abstract submission is 28th February. You can obtain more detailed information from URL: <http://www.isprscm8.org/index.html> We are looking forward to welcome you in Kyoto!

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## Now Available Videos on the 5th gvSIG International Conference

Source: gvSIG Comuncation



Videos of presentations and workshops of gvSIG International Conference are now available [1]; the conference was held the first week of December 2009. All videos are available with audio in Spanish and English. They are available online for download or direct display. Releasing of these videos aim at bringing the Conference to all those interested parties who could not attend, enabling them now to access recording of the various sessions.

[1] <http://jornadas.gvsig.org/comunicaciones/ponencias>

## OGC September and December 2009 TC Meetings

Source: OGC News January 2010

See the OGC Network "Document motions from OGC meetings" page (<http://www.ogcnetwork.net/node/367>) to learn about votes taken and new documents approved at the 70th OGC Technical Committee meetings (<http://www.ogcnetwork.net/node/613>), held in Darmstadt, Germany 28 September to 1 October, 2009 and the 71st OGC Technical Committee meetings (<http://www.ogcnetwork.net/node/625>), held in Mountain View, California 7-10 December, 2009. The March 2010 OGC Technical Committee meetings will be held on March 8-12 in Frascati, Italy, hosted and sponsored by ESA/ESRIN. See the website for additional details and plan to attend.

## INSPIRE Conference 2010

Source: The INSPIRE Team



The INSPIRE Conference 2010, ([http://inspire.jrc.ec.europa.eu/events/conferences/inspire\\_2010](http://inspire.jrc.ec.europa.eu/events/conferences/inspire_2010)) will take place from 23 to 25 June 2010 in Krakow, Poland. On 22 June pre-conference workshops will be organized. The theme of this year's edition is "INSPIRE as a Framework for Cooperation". The INSPIRE Conference will be organized through a series of plenary sessions addressing common policy issues, and parallel sessions focusing in particular on applications and implementations of SDIs, research issues and new and evolving technologies and applications and poster presentations. Participation in the INSPIRE Conference is open to all individuals interested in or working in the field of SDI development and implementation. Full details on the conference can be found at: [http://inspire.jrc.ec.europa.eu/events/conferences/inspire\\_2010/](http://inspire.jrc.ec.europa.eu/events/conferences/inspire_2010/)

## [A suggested new aspect for the New Generation of Digital Earth - Human behavior and decision making](#)

Published in GeoConnexion Magazine: GeoConnexion International

By Gábor Remetey-Fülöpp, HUNAGI

Based on harmonized methodology, survey on decision making mechanisms and identification of decision nodal points, monitoring and analysis of the socio-economic and environmental impact of power, the influence of human interest groups from local to global should be also part of the aspects in the new generation Digital Earth. The complete article may be found at: [http://www.geoconnexion.com/burning\\_issue\\_int.php](http://www.geoconnexion.com/burning_issue_int.php). Responses to [gabor.remetey@gmail.com](mailto:gabor.remetey@gmail.com)

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## Articles and Publications of the Month

### **Design of a Conceptual Land Information Management Model for the Rural Cadastre in Brazil**

By Silvane Paixão, PhD in Land Administration and Land Information Management. Doctoral Dissertation, University of New Brunswick, Canada, under the Geodesy and Geomatics Engineering Department

#### Abstract by the author

The rural cadastral reform established by Law #10,267/2001 is the most recent benchmark in the land administration history in Brazil. It is important not only because after this law rural properties must be geo-referenced, but also because for the first time Brazilian law has called for a common multipurpose cadastral system, called the National Cadastre for Rural Properties (CNIR). CNIR will integrate legal (tenure information), fiscal (value information) and agrarian (land use and management policies) and environmental (protected areas) databases. As in many countries which are in the process of a cadastral reform, Brazil faces serious political, legal, and technical challenges in developing a national rural cadastral system. However, through the harmonization of land information, it is hoped that land conflicts can be reduced, land can be more fairly redistributed and taxed, interests in traditional lands and protected areas can be preserved and, most importantly, that what is registered at the registry offices is the same as what is represented on the ground. This research supports CNIR implementation by providing the design of a conceptual model based on user requirements of all collaborating agencies. The primary purpose of the model is to provide a framework for the integration of the current cadastral systems, under several land administration agencies, in order to obtain more accurate and concise land information to support regularization and secure tenure in rural areas. More specifically, the model is designed to provide a well defined, structured design for CNIR implementation based on user requirements and project management methodologies. The research includes problem definition, analysis of requirements, constraints and opportunities, and design of a model using soft systems methodologies. The results are definition of required CNIR functions, data flow, and minimum content and implementation strategies. Working together with CNIR managers, the research has provided input for its development. The research is based on the assumption that land information, well managed and legally formalized, can help to provide better security of tenure, and as a consequence it may become the proposed model to bring improvement in land reform programs and in public services in Brazil. [The complete document will be published at the following links: UNB - <http://gge.unb.ca/Pubs/TechnicalReports.html> and UFPE - <http://www.ufpe.br/cgtg/publicacoes.htm>; Contact: [silvanepaixao@hotmail.com](mailto:silvanepaixao@hotmail.com)]

### **Towards Integration of Metadata Catalogs in Latin America and the Caribbean**

Published in *Revista Análisis Geográfico* 41:158-167, IGAC

By Orlando Cantor, Diego Andrés Cárdenas y Ana Alexandra Morales

#### Abstract by the Authors

This article summarizes the most important advances in the development of geographic information standards which normalize documentation of these products through metadata, which enables interoperability between institutions and users in general. Taking into account that managing geographic information is needed it has been fully documented, the metadata are the ideal mechanism to characterize this information and enable users to make appropriate use of information. In Colombia, the advances on metadata management has been led by the Geographic Institute Agustín Codazzi (IGAC, by its acronym in Spanish), since exercised the Technical Secretariat of the Technical Committee for Standardization (CTN by acronym in Spanish) and Coordination of Colombian Spatial Data Infrastructure (ICDE by acronym in Spanish). This progress is reflected in the development of management tools, as well as consultants to public and private entities at the national level, developing standard operating procedures, implementation guides, design of regional and national profile of metadata, all based on the generation and constant updating of national standard-NTC4611 Geographic metadata. Key words: geographic metadata, standards, management of geographic information, Colombian Spatial Data Infrastructure, metadata catalog, information technologies, interoperability, NTC 4611, SWAMI, ISO 19115. [The complete paper may be found at: <http://www.cce.gov.co/alfresco2.1-5.1.0.1/d/d/workspace/SpacesStore/6ff47d6c-ba74-11de-aa6d-8102bc0e7c0b/An%C3%A1lisis%20Geogr%C3%A1ficos%2041.pdf>]

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## Geospatial Research and Applications

### [Strange Geoglyphs Discovered Beneath Clear-cut Amazon](#)

Source: Arturo Brun-Martinez

With the aid of satellite imagery from Google Earth, soon archeologists in Brazil will be finding more and more large geometric designs carved into the ground in the Amazon rainforest. The geoglyphs are believed to have been sculpted by ancient people from the Amazon region around 700 years ago, though their purpose is still unknown. So far, nearly 300 geoglyphs have been identified, but with advances in satellite imaging -and increased clearing of the jungle coverage- scientists are hoping to discover many more of these strange, geometric designs. One of the factors that contributed to so many geoglyphs being undetected prior to the aid of satellites is their enormous size. According to leading geoglyph scientist, Alceu Ranzi, his latest discoveries -five sets of geometric shapes, with circles, squares and lines- can measure more than a mile from one extreme to another. Because they have been so hard to find, the first geoglyphs were not discovered until the 1970s. Since then, scientists have been trying to piece together what significance they may have had to ancient Amazonians. What ever the purpose may have been, there is one thing that is certain: the ancient civilizations of the rainforest were more numerous and sophisticated than previously imagined. According to a report from Globo, the new marks were only discovered because the jungle coverage had been removed due to deforestation in the Amazon. These structures are deep, with grooves as large as 12 meters wide and four deep, but it is believed that they were built when jungle abounded which would make their construction all the more difficult.



### [Bathymetric laser scanning on Gulf of Mexico](#)

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

The aerial survey will support the USACE National Coastal Mapping Program, being carried out by the Joint Airborne LiDAR Bathymetry Technical Center of Expertise (JALBTCX) and will generate seamless digital terrain models from both onshore and offshore data, providing important information about the region's coastal morphology. Specifically, the fine detail generated for large portions of the Gulf of Mexico shoreline through Blom's LiDAR technology will help monitor coastal structures and navigation channels, and will help identify areas of coastal erosion. In total, the Gulf of Mexico Bathymetric LiDAR project will cover 950km of coastline between Naples and Tampa, and from Tallahassee to Mobile, taking in access routes to seven major ports. The project will also enable a full analysis of the coastal environment including underwater vegetation and other habitats along the coast. In addition, the data can be employed to accelerate the availability and accuracy of nautical charting, identifying the shape of the seabed as well as pinpointing the position and exact size of any man-made structures or obstructions.

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## GIS Tools, Software, Data

### [GeoServer 2.0.1 Open Source Released](#)

Source: Arturo Brun-Martinez

With a large number of users upgrading to GeoServer 2.0, it is not wonder we have had so many fixes and improvements make it into GeoServer 2.0.1, now available for download. Possibly the most significant change since 2.0.0 has been the addition of the RESTful API to the security sub system. While this is a good fix for GeoServer, it does mean that users who were previously relying on anonymous read access to



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secure services must now authenticate before they can access them. More details are available for those who are interested. Other changes include usability changes to the administration UI, an updated Windows installer that now contains service and console installation options, and over 100 other issues fixed.

### Available grid extension for gvSIG 1.9

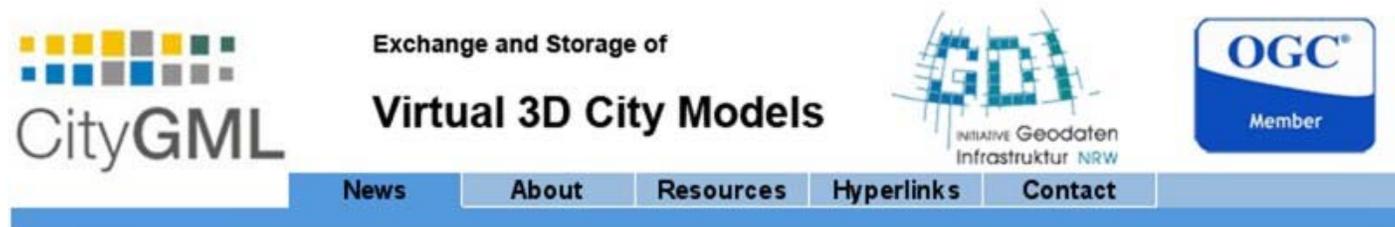
Source: Communication gvSIG



Is now available a stable grid extension for gvSIG 1.9, adding a set of new features and improving those existing in previous versions. The extension is available under the Extensions Downloads section (<http://www.gvsig.gva.es/cast/gvsig-desktop/desk-extensiones/extension-de-redes/descargas/>).

### OGC seeks input on next version of CityGML

Source: OGC Press



The Open Geospatial Consortium, Inc. (OGC®) is seeking broad input on enhancements and changes for our vision of the OGC City Geography Markup Language (CityGML) Encoding Standard (<http://www.opengeospatial.org/standards/citygml>). CityGML is an open information model and XML-based encoding for the representation, storage, and exchange of virtual 3D city models. CityGML is implemented as an application schema of the OGC Geography Markup Language 3 (GML3) Encoding Standard (<http://www.opengeospatial.org/standards/gml>), an international standard for spatial data exchange and encoding approved by the OGC and ISO. In contrast to other 3D vector formats, CityGML (<http://www.citygml.org>) is based on a rich, general purpose semantic model as well as reference system, geometry and graphics content which support sophisticated analysis tasks. Applications include urban and landscape planning; architectural design; tourist and leisure activities; 3D cadastres; environmental simulations; mobile telecommunications; disaster management; homeland security; vehicle, pedestrian, and indoor navigation; training simulators; and mobile robotics. The OGC Technical Committee seeks input from the wider community in the form of change requests, proposed additions and suggestions for the future development of CityGML. These should be submitted by **February 26, 2010**. The public OGC online form for change and feature requests is available at <http://www.opengeospatial.org/standards/cr>. The next version of CityGML will be a minor revision of the standard to version 1.1. The anticipated release date will not be before autumn 2010.

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## Training Opportunities

### Advanced Diploma Course and Master Program at UNIGIS for Latin America

Source: Carla Valdospinos



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The Advanced Diploma Course and Master Program on Geographic Information Systems (GIS) for Latin America, at UNIGIS based in Ecuador (2010. A cycle) starts on March 2010. These are distance education programs. Registration is open until **February 19**, 2010. Starting date is March 8. Further information at: [www.unigis.edu.ec](http://www.unigis.edu.ec). Contact: [unigis.oficina@usfq.edu.ec](mailto:unigis.oficina@usfq.edu.ec)

### OAS Open Call for Online Courses on Cadastre

Source: Luis Andrade by way of Santiago Borrero

The Organization of American States through the OAS Secretariat for Political Affairs, has been offering SAP-training grants in the area of cadastre and have certified thousands of participants in Latin America and the Caribbean through these courses. You are invited to become part of new editions of the courses in Cadastre: "Introduction to Cadastral Management" and "Use of GIS Technology in Cadastre". The courses will be taught entirely online (Internet) via the Virtual Classroom of the Department of State Modernization and Governance (DMEG) of the Department of Political Affairs (SPA) and require a minimum commitment of 2 hours of study / dedication, and basic computer skills. The courses will be in Spanish.



Organization of  
American States

Introduction to Cadastral Management: Application deadline is **March 11**, 2010, at 5:00 PM in Washington DC (EST). Start and End: From April 19 to Friday June 4, 2010.

To register for the course please log on to: <http://preinscripcion.aulacapacitacion.com.ar/content/view/15/2/>. Detailed information may be found at: <http://portal.oas.org/LinkClick.aspx?fileticket=VJpSh%2bYJA4g%3d&tabid=1790>

Use of GIS Technology in Cadastre: Application deadline is **March 18**, 2010, at 5:00 PM in Washington DC (EST). Start and End: From April 26 to June 11, 2010.

To register for these courses please log on to: <http://preinscripcion.aulacapacitacion.com.ar/content/view/9/2/>. Detailed information may be found at: <http://portal.oas.org/LinkClick.aspx?fileticket=VJpSh%2bYJA4g%3d&tabid=1790>

Any questions regarding this notice should be directed to [formacion@oas.org](mailto:formacion@oas.org), including the theme "Course on Introduction to Cadastral Management" or "Course on Using GIS Technology in Cadastre" respectively.

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## Funding Opportunities, Awards, Support

### Terra Viva Grants

Source: Jan Laarman

Terra Viva Grants is a nonprofit information directory of international grant makers for research and projects in agriculture, energy, environment, and natural resources in the developing world. Latin America and Caribbean is among eight developing regions in the geographical structure of Terra Viva Grants. The site offers carefully researched profiles of over 300 grant makers in Europe, North America, Japan and the Pacific, and elsewhere. Funding news includes a calendar of application deadlines, as well as additions and changes in grant-making programs. The site also posts resources and links for grant seekers. Access to the website is free, and there is no advertising <http://www.terravivagrants.org>



### ESRI 2010 Mashup Challenge

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

Map Your App Create an innovative mashup using ArcGIS Online and Web Mapping APIs for the chance to win one of four cash prizes (from US\$10,000 for the first place to US\$2,500 for the fourth place). Awards will be based on originality, creativity, and analytic process. Build a mashup using ArcGIS Online and ESRI Web Mapping APIs, Shoot a

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video of your application and post it on YouTube. Deadline for submitting your mashup is **March 5, 2010**. More information at: [http://www.esri.com/software/mapping\\_for\\_everyone/api/mashup.html](http://www.esri.com/software/mapping_for_everyone/api/mashup.html)

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### Employment Opportunities

#### Research Assistant Professor

Source: Doris Berns



The Regional Research Institute at West Virginia University is seeking a promising scholar with a strong commitment to interdisciplinary social science research to complement its research capacity in the area of regional analysis. The successful candidate is expected to play an important role in the Institute's ongoing projects in regional economic analysis and to pursue and participate actively in externally funded research. Expected areas of expertise and interest include some combination of societal impacts of technological or environmental change, applied spatial modeling methods such as geographic information systems, spatial econometrics, and regional economic and policy analysis. A Ph.D. in applied economics, geography, urban and regional planning, policy analysis, or related discipline should be obtained by the time of appointment. The ideal candidate will have an extensive background and skills in quantitative regional analysis. The Regional Research Institute is dedicated to multidisciplinary research on the economic and social development of lagging regions. Its focus is on theories and methods for studying regions, and policies for stimulating their development. On-going research projects deal with rural economic growth and job creation, environmental analysis, energy policy and technology, and methods for regional policy analysis. Additional information may be obtained at [www.rri.wvu.edu](http://www.rri.wvu.edu). This is a fixed term, 9-month position with an anticipated starting date of August 16, 2010. Research Assistant Professor appointments are typically renewed at least twice, but appointments can be extended beyond three years upon mutual agreement. Application review will begin immediately and continue until the position has been filled. Application materials include curriculum vitae, a two-page statement of research interests, goals, and objectives, and names, addresses, and contact information of at least three references. Submit these materials electronically to [RRI@mail.wvu.edu](mailto:RRI@mail.wvu.edu). Women, minorities and members of disadvantaged groups are particularly encouraged to apply.

#### Assistant Professor of Geographic Information Science at Clark University

Source: Jacqueline Murphy



Clark University invites applications for an assistant professor position in Geographic Information Science (GIS) to begin Fall 2010. This is a three-year term appointment with the possibility of renewal. We are particularly interested in candidates with a specialization in one or more of the following GIS application areas: public health, environmental justice, food security, and humanitarian assistance. A major responsibility will be to teach core courses in GIS (including both raster and vector analysis) and to advise students in Clark's Master of Arts program in GIS for Development and Environment. PhD. or equivalent in a relevant discipline is required by May 2010. Knowledge of programming languages used in GIS, experience with geospatial analysis and online mapping applications are also highly desirable. This position will serve the needs of both the Department of International Development, Community, and Environment (IDCE) ([www.clarku.edu/departments/idce](http://www.clarku.edu/departments/idce)) and Clark's School of Geography ([www.clarku.edu/departments/geography](http://www.clarku.edu/departments/geography)). Applicants must show a commitment to teaching and working

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collaboratively within an interdisciplinary program. A detailed statement of interest, curriculum vitae, and a list of references should be sent via email attachment to Jackie Murphy ([jmurphy@clarku.edu](mailto:jmurphy@clarku.edu)) or via postal mail to the GISDE Search Committee, IDCE, Clark University, 950 Main Street, Worcester, MA 01610. Review of applications will begin January 15 and will continue until the position is filled.

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### Other

#### Launch of the 2010 Education for All Global Monitoring Report

Source: News\_edu UNESCO list

Ban Ki-moon, Secretary General of the United Nations, and Irina Bokova, Director General of UNESCO, launch the 2010 EFA Global Monitoring Report, Reaching the marginalized, at UN headquarters in New York on 19 January. More information at: [GMR Website](#) / [Interview with GMR Senior Policy Analyst Samer Al-Samarrai](#)

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### Americas: Conferences, SDI Events

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

FEBRUARY 2010		
1-2	Olympic Valley CA, USA	<a href="#">Accela Partner Summit 2010</a>
3-4	Redlands CA, USA	<a href="#">2010 CA/HI/NV Regional User Group (CAHINVRUG) Conference</a>
3-5	Denver CO, USA	<a href="#">ILMF 2010</a> (International Lidar Mapping Forum)
4-5 <i>*NEW*</i>	San Francisco CA, USA	<a href="#">MAPublisher Training</a>
8-10	The Woodlands, Houston TX, USA	<a href="#">SPAR 2010: 3D Imaging &amp; Positioning for Engineering, Construction, Manufacturing</a>
10 <i>*NEW*</i>	Boulder CO, USA	<a href="#">Google &amp; Korem Roadshow 2010</a>
10-15	St. Maarten, Netherlands Antilles	<a href="#">2nd International Conference on Advanced Geographic Information Systems, Applications, and Services / GEOProcessing 2010</a>
11 <i>*NEW*</i>	Houston TX, USA	<a href="#">Google &amp; Korem Roadshow 2010</a>
11	On Line	<a href="#">Second Series of Regional Real-time Online Conferences on Risk Assessment and Risk Management: Latin America and the Caribbean</a>
17-19	Washington DC, USA	<a href="#">2010 ESRI Federal User Conference</a>
18-20	Quito, Ecuador	<a href="#">Workshop for Indigenous and Local Communities in Latin America and the Caribbean on Information Technologies, Tourism and Biodiversity in Forest Ecosystems – Workshop III: Forest Ecosystems</a>
22-24	Houston TX, USA	<a href="#">2010 ESRI Petroleum User Group Conference</a>
22-25	Redlands CA, USA	<a href="#">Redlands GIS Week</a>

MARCH 2010		
3-5	Denver CO, USA	<a href="#">International Lidar Mapping Forum Conference and Exhibition</a>
3-5	Washington DC, USA	<a href="#">International Commercial Remote Sensing Symposium</a>
6-10	Annapolis MD, USA	<a href="#">National States Geographic Information Council (NSGIC) Midyear Conference</a>
7-13	Cancún, México	<a href="#">First International Conference on Environmental Change Awareness (BIOENVIRONMENT 2010)</a>
8-11	Little Rock AR, USA	<a href="#">14th GIS / CAMA Technologies Conference</a>

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14-19	Mérida, Mexico	<a href="#">6th European Geosciences Union Alexander von Humboldt International Conference on Climate Change, Natural Hazards, and Societies</a>
15-26	Buenos Aires, Argentina	<a href="#">2010 Southwestern Hemisphere Workshop Series On Climate Change: CO<sub>2</sub>, the Biosphere and Climate</a>
18-19 <i>*NEW*</i>	Washington DC, USA	<a href="#">MAPublisher Training</a>
21-23	Palm Springs CA, USA	<a href="#">2010 ESRI Worldwide Business Partner Conference (BPC)</a>
21-24	Orlando, FL, USA	<a href="#">Spring World 2010</a>
22-24 <i>*NEW*</i>	Broomfield CO, USA	<a href="#">SRCI's Extend 2010 Geographic Business Intelligence Customer Conference</a>
22-25	Marbella, Chile	<a href="#">Workshop on Urban Dynamics</a>
22-25	Miami FL, USA	<a href="#">CARIS 2010</a>
22-25	Palm Springs CA, USA	<a href="#">2010 ESRI Developer Summit</a>
22-26	Rio de Janeiro, Brazil	<a href="#">World Urban Forum 5</a>
23-25	Tampa FL, USA	<a href="#">DistribUTECH 2010 Conference &amp; Exhibition</a>
23-25	Las Vegas NV, USA	<a href="#">CTIA Wireless 2010</a>
23-25	Washington DC, USA	<a href="#">FOSE - Technology for Business of Government</a>
24-26	Vancouver, Canada	<a href="#">Globe 2010</a>
24-26 <i>*NEW*</i>	Austin TX, USA	<a href="#">STI: Research Conference and User Forum 2010</a>
24-26 <i>*NEW*</i>	Austin TX, USA	<a href="#">STI: PopStats Research Conference</a>
29-31	Orlando FL, USA	<a href="#">2010 AWRA Spring Specialty Conference</a>
30-31 <i>*NEW*</i>	SJ Campos-SP, Brazil	<a href="#">First Workshop on Engineering and Spatial Technology</a>
Mar. 30 – Apr. 1	San Jose CA, USA	<a href="#">Where 2.0 Conference 2010</a>
31 <i>*NEW*</i>	São Paulo SP, Brazil	<a href="#">Geomarketing Seminar – New Trends</a>

## APRIL 2010

Mar. 30 – Apr. 1	San Jose CA, USA	<a href="#">Where 2.0 Conference 2010</a>
1 <i>*NEW*</i>	SJ Campos-SP, Brazil	<a href="#">First Workshop on Engineering and Spatial Technology</a>
5-9	Orlando FL, USA	<a href="#">SPIE Defense, Security, &amp; Sensing 2010</a>
7-10	Kansas City MI, USA	<a href="#">ADEC 32nd Annual Conference</a>
12-14	Charleston WV, USA	<a href="#">GIS-T 2010</a>
13-15	Toronto, Ontario, Canada	<a href="#">GeoTec 2010</a>
14-15 <i>*NEW*</i>	Champaign IL, USA	<a href="#">Illinois GIS Association Spring Conference</a>
14-18	Washington DC, USA	<a href="#">Association of American Geographers 2010 Annual Meeting</a>
15-16	Victoria BC, Canada	<a href="#">ESRI Regional User Conference</a>
15-17	Curitiba, Paraná, Brazil	<a href="#">5<sup>th</sup> Brazilian Symposium on Soils Education</a>
18-21	Huntington Beach CA, USA	<a href="#">16th Annual CalGIS Conference</a>
18-22	Kansas City MO, USA	<a href="#">MAGIC 2010 Symposium</a>
19-23	San Diego CA, USA	<a href="#">BAE Systems GXP International User Conference and Professional Exchange</a>
19-22 <i>*NEW*</i>	Houston TX, USA	<a href="#">Project Economics and Decision Making Analysis in Oil and Gas</a>

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20-21	Quebec, Canada	<a href="#">ESRI Regional User Conference</a>
22	Toronto ON, Canada	<a href="#">Expedition 2010: Navigate Location Intelligence</a>
22-24 <b>*NEW*</b>	Fortaleza, Brazil	<a href="#">First Brazilian Congress on Environmental Education applied to Territorial Management</a>
25-29	Phoenix AZ, USA	<a href="#">GITA's 2010 Geospatial Infrastructure Solutions Conference</a>
25-29	Phoenix AZ, USA	<a href="#">Not Your Father's GIS Conference</a>
25-30	Huntsville AL, USA	<a href="#">SpaceOps 2010</a>
26-28	Charlotte NC, USA	<a href="#">2010 Southeast Regional User Group (SERUG) Conference</a>
26-30	Austin TX, USA	<a href="#">2010 NatureServe Conferences: Biodiversity without Boundaries</a>
26-30	San Diego CA, USA	<a href="#">ASPRS Annual Conference</a> / <a href="mailto:asprs@asprs.org">asprs@asprs.org</a>
27-28	Sudbury ON, Canada	<a href="#">ESRI Regional User Conference</a>
29	Phoenix AZ, USA	<a href="#">Oracle Spatial User Group Meeting</a>

### MAY 2010

4-5 <b>*NEW*</b>	Santa Maria RS, Brazil	<a href="#">Geomatics Symposium</a>
10-13	Banff, Alberta, Canada	<a href="#">Disaster Forum 2010: Plan to Succeed</a>
11	Whitehorse YT, Canada	<a href="#">ESRI Regional User Conference</a>
12-13	Kamloops BC, Canada	<a href="#">ESRI Regional User Conference</a>
12-14	Miami FL, USA	<a href="#">Pitney Bowes Business Insight</a>
13-14 <b>*NEW*</b>	Tampa FL, USA	<a href="#">MAPublisher Training</a>
16-18	Montego Bay, Jamaica	<a href="#">2010 International Conference on Information Resources Management</a>
16-20	Aracaju (SE), Brazil	<a href="#">24<sup>th</sup> Cartographic Brazilian Congress</a>
17-20	Puebla, Mexico	<a href="#">11th International Digital Government Research Conference (DGO2010)</a>
18-19	Calgary AB, Canada	<a href="#">ESRI Regional User Conference</a>
19	Bethesda MD, USA	<a href="#">NGA Tech Day</a>
20	Reston VA, USA	<a href="#">USGIF Industry Tech Day</a>
22	Montreal, Canada	<a href="#">International Day for Biological Diversity</a>
24-27	Toronto, Canada	<a href="#">American Canadian Conference for Academic Disciplines</a>

### JUNE 2010

1	Las Vegas NV, USA	<a href="#">Consumer Telematics Show</a>
1-4	Ithaca NY, USA	<a href="#">36th Annual Conference of the International Association for Social Science Information Service and Technology (IASSIST)</a>
2-3 <b>*NEW*</b>	Chicago IL, USA	<a href="#">People Tracking and Location USA 2010</a>
3-4 <b>*NEW*</b>	Winnipeg MB, Canada	<a href="#">ESRI Regional User Conference</a>
7-9	Rosemont, IL, USA	<a href="#">Sensors Expo &amp; Conference</a>
8-11 <b>*NEW*</b>	Washington DC, USA	<a href="#">COM.Geo 2010: 1st International Conference and Exhibition on Computing for Geospatial</a>
14-17 <b>*NEW*</b>	Nashville TN, USA	<a href="#">Intergraph 2010</a>
14-18 <b>*NEW*</b>	Silver Spring, MA, USA	<a href="#">OGC Technical and Planning Committee Meeting</a>
15-18 <b>*NEW*</b>	Calgary, Alberta, Canada	<a href="#">Canadian Geomatics Conference (CGC)</a> "Convergence in Geomatics - Shaping Canada's Competitive Landscape"

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16-18	Calgary, Canada	<a href="#">Commission I Symposium "Image Data Acquisition - Sensors &amp; Platforms"</a> Contact: <a href="mailto:elsheimy@ucalgary.ca">elsheimy@ucalgary.ca</a>
20-24	Chicago, Illinois, USA	<a href="#">129th Annual Conference and Exposition of the American Water Works Association: Show Me the Water</a>
21-23 <i>*NEW*</i>	Boston MA, USA	<a href="#">ENZEE Universe</a>
21-23 <i>*NEW*</i>	Quebec, Canada	<a href="#">Canadian Hydrographic Conference</a>
21-25	Santo Domingo, Dominican Republic	<a href="#">International Meeting "Virtual Educa" – 2010</a>
22-25	Calgary, Alberta, Canada	<a href="#">103rd Air and Waste Management Association Conference and Exhibition: Energy and the Environment</a>
Jun.28-Jul.2 <i>*NEW*</i>	Santa Fe, Argentina	<a href="#">Fifth Congress on Cartographic Science, Argentina</a> E-mail: <a href="mailto:congresocienciartograficasfe@gmail.com">congresocienciartograficasfe@gmail.com</a>

### JULY 2010

3-7	Edmonton Alberta, Canada	<a href="#">24th International Congress for Conservation Biology</a>
8-11 <i>*NEW*</i>	Monterrey CA, USA	<a href="#">2010 Society for Conservation GIS (SCGIS)</a>
10-13	San Diego CA, USA	<a href="#">2010 ESRI Education User Conference</a>
10-13	San Diego CA, USA	<a href="#">2010 ESRI Survey &amp; Engineering GIS Summit</a>
10-13	San Diego CA, USA	<a href="#">2010 ESRI Homeland Security GIS Summit</a>
12-16	San Diego CA, USA	<a href="#">2010 ESRI International User Conference</a>
12-16	Houston TX, USA	<a href="#">The Fifth International Conference on Environmental Science and Technology 2010</a>
15-16 <i>*NEW*</i>	San Diego CA, USA	<a href="#">MAPublisher Training</a>
26-30	Honolulu, Hawaii, USA	<a href="#">IGARSS'10: IEEE International Geoscience &amp; Remote Sensing Symposium</a>
26-30	Los Angeles CA, USA	<a href="#">SIGGRAPH 2010</a>
27-30	Recife PE, Brazil	<a href="#">3<sup>rd</sup> Brazilian Symposium on Geodesic Sciences and Geoinformation Technologies - III SIMGEO</a>

### AUGUST 2010

2-6 <i>*NEW*</i>	Orange County CA, USA	<a href="#">Accela User Conference 2010</a>
3-6	Buenos Aires, Argentina	<a href="#">Scientific Committee on Antarctic Research (SCAR) Open Science Conference (OSC)</a>
8-13	Foz do Iguassu, Brazil	<a href="#">American Geophysical Union (AGU) Joint Assembly</a>
15-18 <i>*NEW*</i>	Boston MA, USA	<a href="#">2010 APWA International Public Works Congress &amp; Exposition</a>
16-18 <i>*NEW*</i>	Charlotte NC, USA	<a href="#">2010 URISA/NENA Addressing Conference</a>

### SEPTEMBER 2010

9-10 <i>*NEW*</i>	Philadelphia PA, USA	<a href="#">MAPublisher Training</a>
12-16	Minneapolis MN, USA	<a href="#">National States Geographic Information Council (NSGIC) Annual Conference</a>

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12-16	Vancouver BC, Canada	<a href="#">15th International Union of Air Pollution Prevention and Environmental Protection Association's World Clean Air Congress: Achieving Environmental Sustainability in a Resource Hungry World</a>
16-17 <i>*NEW*</i>	Edmonton AB, Canada	<a href="#">ESRI Regional User Conference</a>
19-24	Montreal, Canada	<a href="#">IWA World Water Congress and Exhibition</a>
22 <i>*NEW*</i>	Washington DC, USA	<a href="#">LI Geocloud 2010</a>
27-30 <i>*NEW*</i>	Jackson Hole WY, USA	<a href="#">Remote Sensing &amp; Hydrology Symposium 2010</a>
Sep.28-Oct.1 <i>*UPDATED*</i>	Orlando FL, USA	<a href="#">GIS-Pro 2010: URISA/48th Annual URISA Conference &amp; Exposition</a>
Sep.30-Oct.1 <i>*NEW*</i>	Regina SK, Canada	<a href="#">ESRI Regional User Conference</a>

### OCTOBER 2010

4-8	Santiago, Chile	<a href="#">Latin American Remote Sensing Week</a>
6-7 <i>*NEW*</i>	Toronto ON, Canada	<a href="#">ESRI Regional User Conference</a>
18-22	Singapore, Singapore	<a href="#">GSDI 12 World Conference 2010: Realizing Spatially Enabled Societies</a>
18-22	Orlando FL, USA	<a href="#">E-Learn 2010</a>
19-20 <i>*NEW*</i>	Ottawa, Canada	<a href="#">ESRI Regional User Conference</a>
19-21	Curitiba Paraná, Brazil	<a href="#">IX Updated Seminar on Remote Sensing and Geographic Information Systems applied to Forestry Engineer</a>
20-21 <i>*NEW*</i>	Naperville IL, USA	<a href="#">ILGISA Fall Conference</a>
20-22	Santiago, Chile	<a href="#">IAOS/Scorus Conference on official statistics and the environment: approaches, issues, challenges and linkages</a>
25-28	Nashville TN, USA	<a href="#">GEOINT Symposium 2010</a>
26-27 <i>*NEW*</i>	Fredericton NB, Canada	<a href="#">ESRI Regional User Conference</a>

### NOVEMBER 2010

2-3 <i>*NEW*</i>	Vancouver BC, Canada	<a href="#">ESRI Regional User Conference</a>
4 <i>*NEW*</i>	Oakville, Ontario, USA	<a href="#">GITA Ontario Chapter Fall Forum 2010</a>
4-5 <i>*NEW*</i>	Denver CO, USA	<a href="#">MAPublisher Training</a>
8-12	Guanajuato, Mexico	XIV International SELPER Symposium "Observation & Monitoring of the Earth related to Climate Change" (An ISPRS Regional Conference) E-mail: <a href="mailto:silvia.casas757@gmail.com">silvia.casas757@gmail.com</a>
15-19	Orlando FL, USA	<a href="#">AutoCarto 2010</a>
16-18	Orlando FL, USA	<a href="#">Commission IV Symposium "Geodatabases &amp; Digital Mapping" / Marguerite Madden (President Commission IV) / <a href="mailto:mmadden@uga.edu">mmadden@uga.edu</a></a>

## Global Spatial Data Infrastructure Latin America and the Caribbean Newsletter

<b>17-18</b> <b>*NEW*</b>	St. John's NL, Canada	<a href="#">ESRI Regional User Conference</a>
<b>Nov.30-Dec.3</b> <b>*NEW*</b>	Port of Spain, Trinidad	<a href="#">URISA's 5th Caribbean GIS Conference</a>

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