

# Global Spatial Data Infrastructure Latin America and the Caribbean Newsletter

SDI-LAC

November

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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 now UN-GGIM-Americas), promote SDI development in the region. The newsletter is prepared by PAIGH for GSDI.

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## Message from the Editor

This SDI-LAC number highlights the following updates: The **Global and Regional SDI** section comprises notes on the Global Geospatial Conference 2013 taking place this month; the Sentinel family of satellites data reuse potential; OGC proposal to update ISO 19107:2003; the New PC-IDEA (now UN-GGIM-Americas) Portal; FGDC Request for input; the OGC ILAF Corner; and relevant Conferences taking place worldwide. The **IGS section** includes comments on IGS Membership Renewal. The **National SDI** segment informs on the IDERA Newsletter Issue 11 and Capacity Building Working Group in Argentina; IBGE's integrated version of the Seamless Topographic Cartography of Brazil at scale of 1:250.000; New thematic layers in Chilean SDI Map Viewer; IDECA to undertake research work in Colombia; The ONT receives ESRI Latin-American Award for Excellence in GIS in Costa Rica; the Mexican 2013-2018 National Statistics and Geography Program; the development of SDI in Nicaragua; the Geoserver of Peru; and the Approved Strategic Guidelines for Geographic Information in Uruguay. **Articles and Publications** of the month include the D\_City manifesto; and the 2<sup>nd</sup> DIMENSIONS Newsletter of the AAG-HDGC Specialty Group. **Geospatial Research and Applications** underline the mapping of Matterhorn by a fleet of drones in just 6 hours; a Study to put freshwater biodiversity on the map for planners and policymakers; and the Novel gvSIG Scripts Repository. The **Training and Funding Opportunities** section encompasses calls for the New ITC's e-learning MSc course on GIS and EO; Launching of Geo for All website; the Geographical Names Seminar in Panama's IGNTG; Lincoln Institute 2013-2014 Program; and the CaMPAM Mentorship

Program. Finally, several **Events taking place in the Americas** are listed in the last section.

Translation of SDI-LAC Portuguese is possible thanks to undergrad students **Esrom A. Rissate Jr.** and **Caroline Martins**, the geographer **Alexandre Scussel**, editorial assistant (MundoGEO) and cartographer engineers: **Alison Galdino**, Analist (Navteq – Recife); **Antonio J. Fazan**, Analist (AMS Kepler Engenharia de Sistemas); **Annette Pic**, MSc in Remote Sensing; **Camila B. Guedes**, Operations Department Advisor (DECEA); **Edilce F. Burity**, Technologist (IBGE/PE); **Edmilson M. Volpi**, Natural Resources Secretary in SP; **Eduardo Freitas**, editor (MundoGEO portal and magazine); **Flávio Porfírio**, Geoinformation Unit (ITEP); **Juan Carlos G. Mamani**, consultant in Geoinformation Technology; **Rodrigo Quirino** Technologist (IBGE/RJ); **Silvana Camboim** Professor (UFPR); **Silvane Paixão**, GIS Project Coordinator; **Tatiana Mendes**, Professor ICT (Unesp); Verônica Azevedo, Analist (Navteq- Recife); **Vivan Fernandes**, Professor (UFBA). Under the general coordination of **Silvane Paixão** and review of **Eduardo Freitas**.

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

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

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### Input to this Issue

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

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Imma Serra	National Geographic Information Center, National Geographic Institute, Spain
Claudia Stormoen	FIG Office and Event Coordinator, Copenhagen, Denmark

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### Global and Regional SDI, News, Presentations

## AfricaGIS 2013

## GSDI 14



UNECA Conference Center, Addis Ababa, Ethiopia  
November 4-8, 2013

#### Global Geospatial Conference 2013 Update

Source: Roger Longhorne; Global and IGS News

The organisers of the Global Geospatial Conference 2013, to be held at the UN Economic Commission for Africa (UNECA) United Nations Conference Centre (UNCC), Addis Ababa, Ethiopia, from 4-8 November, are pleased to announce that industry leaders Esri, Intergraph, Google and DigitalGlobe have been joined by GEO, the Group on

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Earth Observations, as sponsors for this joint GSDI 14 World Conference and AfricaGIS 2013 Conference. For latest details, check the link at <http://gsdi.org/gsdi14>.

It is shaping up to be a great conference! Over 170 presentations are scheduled (see topics below), nine free workshops and sponsored sessions are offered throughout the week, plus launch of AfriGEOSS initiative.

### CONFERENCE PROGRAM

The detailed programme for the Global Geospatial Conference 2013 has been published on the conference website. (See [http://www.gsdi.org/gsdiconf/gsdi14/prog\\_details.html](http://www.gsdi.org/gsdiconf/gsdi14/prog_details.html)).

#### Seven Plenary Sessions

The conference includes an extensive programme of plenary and panel sessions, with renowned speakers offering their views and experience on a wide range of topics and issues focusing on the main conference theme of “Spatial Enablement in Support of Economic Development and Poverty Reduction”.

The plenaries are accompanied by an extensive technical programme of over 170 presentations in multiple parallel sessions each day of the conference.

### WORKSHOPS

Conference workshops are schedule before and during the primary sessions of the Global Geospatial Conference 2013 in Addis Ababa, between 3 and 8 November 2013. The content of each workshop is described on the conference website at [www.gsdi.org/gsdi14/workshops.html](http://www.gsdi.org/gsdi14/workshops.html).

The availability of workshop seats is limited. Seats will be filled in priority order based on online requests from paid individual registrants. Workshop hosts have the ability to restrict the number of registrants admitted and may limit the number of persons attending from a single organization. You will receive notification directly from the hosting organization and/or the conference organizers approximately one month in advance of the conference as to whether you have a seat or have been placed on a waiting list. Please cancel your workshop registration in the listing below if your plans change for any reason.

Look for the latest information and sign-up details on the Conference website at:  
<http://www.gsdi.org/gsdiconf/gsdi14/workshops.html>

#### **Will Sentinel data be available at marginal cost?**

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



A recent study, commissioned by the European Space Agency (ESA), initially presented during an Expert Workshop of European Association of Remote Sensing Companies (EARSC) brings forward the idea that data from the upcoming Sentinel series of satellites should be regarded as Public Sector Information, increasing their value for money. Through the Global Monitoring for Environment and Security (GMES) programme, decision-makers will have access to reliable, timely and accurate information services to manage the environment, understand and mitigate the effects of climate change and ensure civil security. The programme will rely heavily on data provided by the Sentinel family of satellites – the first of which is due for launch later this year. The potential of these data and information to be ‘reused’ both for commercial and non-commercial purposes recently came into focus in an [ESA-commissioned study](#). In the final report, the authors outlined how reusing the data could potentially generate new businesses and jobs, and provide consumers

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with more choice and more value for money. The free and open data policy for Sentinel data is expected to foster such reuse. In fact, there is evidence that economic benefits are magnified when the data are made available at low or marginal cost, so that entry barriers are minimised also for small and medium enterprises.

Watch a video and read more [here](#).

### The OGC requests comment on proposal to update ISO 19107:2003 Geographic information – Spatial

Source: Santiago Borrero



October 29<sup>th</sup>, 2013 - The Open Geospatial Consortium (OGC®) is seeking comments on a draft NWIP (New Work Item Proposal) package intended for submission to ISO TC 211 to kick off a project to update ISO 19107:2003 Geographic information – Spatial Schema. ISO 19107:2003 has been adopted as the OGC Abstract Specification for Geometry. Since this document is the world standard for the representation of geographic geometry, it is used (directly or indirectly) by nearly every specification and standard for geospatial data representations for both ISO and OGC. 19107 is also used by other standards organizations that use OGC standards directly as a cited source or that mimic OGC structures. In updating the Spatial Schema after 10 years of use, ISO TC 211 and the OGC will have to balance the needs for backward compatibility and the needs for new and more appropriate functionality. This NWIP package was prepared by the OGC Simple Features Standards Working Group in its efforts to update the OGC Simple Features Abstract Specification, which depends heavily on the Spatial Schema. Download the draft proposal from [https://portal.opengeospatial.org/files/?artifact\\_id=55538&version=1](https://portal.opengeospatial.org/files/?artifact_id=55538&version=1). Comments are due by 28 November, 2013. All comments received will be submitted by OGC to the ISO and will be adjudicated in the ISO process. The ISO will provide a formal response to the OGC that will be published before the ISO standard is put to a final vote as an International Standard. Contact: [info@opengeospatial.org](mailto:info@opengeospatial.org).

### [New PC-IDEA \(now UN-GGIM-Americas\) Portal](#)

Source: <http://www.cp-idea.org/>



The Permanent Committee on Geospatial Data Infrastructure for the Americas (PC-IDEA now UN-GGIM-Americas) portal has now new services including the following:

[Standards Bank](#): Repository of documents concerning the standards and technical specifications that make up the "core policy" recommended by PC-IDEA, and other standards in cartography, geodesy, Web publishing and thematic geospatial information. It is intended that these standards and technical specifications may apply to the region as a whole, beyond national specificities.

[Training Observatory](#): Tools developed to share skills among members of the PC-IDEA, in a sustainable way over time and pointing to the needs and issues relevant to the region. It aims to connecting the supply and demand for workshops, courses and academic programs aimed at geospatial information producers, and users and decision makers.

[SDI Observatory](#): Gateway to documents and good practices related to SDI and geospatial information management in various matters related to policy, legal and institutional frameworks, rules, standards and technical specifications, information, data and catalogs, technology and others. This observatory has been implemented to support the countries of the Americas in the development of their SDI.

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## FGDC Request for input

Source: Julie Maitra by way of Santiago Borrero

Which standards in the SDI Standards Baseline do your national/regional SDI activities use?

You may find the SDI Standards Baseline in Table 2, [http://www.gsdiocs.org/GSDIWiki/index.php/Chapter\\_10#Table\\_2: SDI\\_standards\\_baseline](http://www.gsdiocs.org/GSDIWiki/index.php/Chapter_10#Table_2: SDI_standards_baseline), of Chapter 10 of the SDI Cookbook. Please respond to Julie Maitra [jmaitra@usgs.gov](mailto:jmaitra@usgs.gov) who is building a table that will show the core SDI standards that various SDIs use for inclusion in Chapter 10 of the SDI Cookbook.

## OGC ILAF Corner

Source : Imma Serra and Joan Capdevila



Did you know that...

The Geography Markup Language (GML) is a XML coding implementation standard that enables modeling, exchanging and storing geographic information on the Internet. The GML model is based on the OGC Abstract Specification and the ISO 19000 series of standards. OGC has developed several versions of the coding standard and in 2007 version 3.2.1 was adopted as ISO standard (ISO 19136 and ISO19136 -2). This standard defines the XML Schema syntax, mechanisms and conventions that:

- Allow an open and neutral framework from the point of view of suppliers to the description of spatial application schema for the exchange and storage of geographic information in XML.
- Allow profiles that support subsets descriptive capabilities of GML framework.
- Endorse the description of geospatial application schemas for specialized domains and information communities.
- Enable the creation and maintenance of geographic application schemas and linked data sets.
- Support storage and exchange of geographic application schemas and data sets .
- Increase the ability of organizations to share geographic application schemas and the information they describe.

The geographic data structure is defined by GML schema that is described by several objects, including entities, coordinate systems, geometry, topology, time, dynamic elements, measuring units, addresses, comments and coverages/ layers. The GML schema may be customized to adapt the generic data model for a given use by profiles and application schemas. A GML profile is a restricted subset of the full GML standard. And an application schema is a specific scheme to specialize the generic elements of the GML schema into appropriate elements for an application domain. In this [link](#) you can see a list of GML profiles and application schemas.

## OGC News

26/09: [OGC and USGIF invited to attend a demonstration of geospatial services with modeling and simulation applications](#)

30/09: [Jeff de La Beaujardière receives OGC Gardel award](#)

02/10: [OGC calls for the revision of WKT Coordinate Reference Systems standard](#)

09/10: [DigitalGlobe becomes principal member of OGC](#)

10/10: [OGC works with TECTERRA to host the Opening Doors, Connecting Business event](#)

23/10: [OGC and TM FORUM agree directing aspects of geographic information in the telecommunications industry](#)

More on OGC at the OGC Iberian and Latin American Forum webpage !

## [Esri Developer Summit Middle East and Africa](#)

Source: Crista Hatfield

The Esri DevSummit Middle East and Africa will be held on November 19-21, 2013 in Dubai, UAE and is the event for developers to come together and learn the latest and greatest in geospatial development from each other and Esri developers. The Esri Developer Summit (DevSummit) Middle East and Africa is a conference for developers who want to learn more about the tools and technologies for creating mapping applications or adding maps to their existing apps. The DevSummit will have the following:

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- Detailed technical sessions covering various aspects of the ArcGIS platform and ways to build with it
- User presentations and Lightning Talks from some of your most innovative fellow developers
- Demonstrations of the latest Esri releases, many of which are too new to have been shown off at the International User Conference or DevSummit in the United States.
- Many opportunities to meet and network with fellow developers and Esri staff
- Ample time to get your questions answered

### International Meeting on Food Security, Earth Observations and Agricultural Monitoring

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



Secure World Foundation (SWF), the European Commission (EC) and the Group on Earth Observations (GEO) are partnering this year to organize an international meeting under the banner "Food Security, Earth Observations

and Agricultural Monitoring". The purpose of this meeting is to assess the situation regarding global observational facilities, models and derived services needed to meet the demand in developed and developing countries regarding agricultural production. The one-day conference will be held in Brussels on Thursday, November 21st 2013 at the premises of Secure World Foundation. For more information on the event, [click here](#). To see the draft conference programme [click here](#).

### XXV FIG International Congress in Malaysia: Call for papers – deadline for papers has been extended

Fuente: Claudia Stormoen



Taking into account requests from prospective participants at FIG2014, it has been decided to extend the deadline for submission of full peer review papers at the XXV FIG International Congress, Malaysia, Kuala Lumpur, 16-21 June 2014. The extended deadline for submission of full peer review papers is **15 November** 2013. Authors are kindly invited to submit their paper to [fig@fig.net](mailto:fig@fig.net). Before submitting your full paper you have to submit the abstract at: <http://www.fig.net/fig2014/submission.htm>. The call for papers also includes non-peer review papers. The deadline for submitting your non-peer review abstract is **1 December** 2013. Please see the full call for paper at: [http://www.fig.net/fig2014/downloads/call\\_for\\_papers\\_fig2014.pdf](http://www.fig.net/fig2014/downloads/call_for_papers_fig2014.pdf). When you are preparing your paper please follow these guidelines: [http://www.fig.net/fig2014/presenter\\_practical.htm](http://www.fig.net/fig2014/presenter_practical.htm)

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### IGS News, Links, Publications



International  
Geospatial Society



#### IGS Reminders – Membership Renewal

Source: News from the GSDI Association and the International Geospatial Society, Volume 3, Number 1, 2013

It is time to renew your membership in the International Geospatial Society (IGS). As a member you played a vital role in making the past year a great success.

#### *Activities and Benefits*

The International Geospatial Society (IGS) is the global society for geospatial specialists who want to affiliate with, help support, learn from and communicate with peer professionals across the world. Without the base financial support and volunteered personal time and effort of members the numerous activities in which IGS engages would not be possible. See a description of member benefits and the range of activities in which members have been engaged at <http://www.igeoss.org/BenefitsOfJoining>.

In terms of new initiatives, the organization was able to implement a program to allow geospatial specialists in developing nations to provide services in lieu of dues. Those services consist of providing or updating each year a personal professional profile in the geographic knowledge network. This effort has provided a much broader geographic distribution of representation in the organization. See the full list of members at <http://www.igeoss.org/members>.

We also expanded publication of GSDI and IGS Global News so it comes to you through email on a regular basis. The organization continues to advocate open access to geospatial conference proceedings, books, learning materials, newsletters and standards across global geospatial organizations to ensure that all are able to benefit from the resources being developed.

#### *Submitting your Dues or Maintaining Free Membership*

In order to renew your membership, please go to <http://www.igeoss.org/join> and pay the dues of \$US50 by credit card (\$25 for students). Dues payment is available only through use of a credit card. In the event that you are a citizen of and live within a qualifying economically disadvantaged nation, the online membership application at <http://www.igeoss.org/join> will provide you with the option of applying for free membership in IGS. The primary obligation is to provide the URL link to your professional profile in the GIKNetwork.

Information provided by Marilyn Gallant, GSDI Business Manager ([mgallant@gsdi.org](mailto:mgallant@gsdi.org)).

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## National SDI, News, Links, Presentations

### ARGENTINA

#### [IDERA Newsletter Issue 11 Now Available - October 2013](#)

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

The Spatial Data Infrastructure of the Republic of Argentina (in Spanish IDERA) Outreach and Communication Institutional Team is pleased to announce release of the IDERA Bulletin No.11 for October. IDERA Bulletin is a communication tool for dissemination of news and content of interest to the Argentinean SDI community. It informs on GIS, SDI, remote sensing, and geospatial data management related topics at the global, regional, national and local levels. Key announcements include:

- The 8th IDERA Conference to be held on November 7-8 this year in the city of San Carlos de Bariloche, Argentina.
- The 2nd Working Groups Meeting (IDERA 2013) to be held on November 6, in the same city.

The Bulletin is also available [online](#). You may as well [download the Newsletter](#) from the official IDERA website.



#### **IDERA Capacity Building Working Group**

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

The objective of this Working Group is to identify training needs and tools for geoinformation production in different institutions. It aims at producing relevant mechanisms for training in the operation and use of relevant ICTs involved. The following capacity building resources are highlighted:

[Access to IDERA Virtual Campus](#)

Links to SDI Capacity Building Initiatives in Argentina:

- [Courses and Training at ETISIG Chaco](#)
- [IDEF Tutorials, Formosa SDI](#)
- [SIT Santa Cruz Training Resources](#)
- [IDESF Training Resources, Santa Fe SDI](#)
- [National Educational Map Program Virtual Campus](#)

Contact: Alicia Long, Municipality of the city of Santa Fe [modernizacion@santafeciudad.gov.ar](mailto:modernizacion@santafeciudad.gov.ar)

### BRAZIL

#### **IBGE provides integrated version of the Seamless Topographic Cartography of Brazil at scale of 1:250.000**

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



Last October the Brazilian Institute for Geography and History (In Portuguese IBGE) website included the Seamless Topographic Cartography of Brazil at scale of 1:250.000 (where 1 cm = 2.5 km), as part of the Topographic Cartography Permanent Update Program (BC250). Until now, maps were divided into blocks and now a seamless data set of the entire national territory at this scale is provided. The Topographic Cartography Permanent Update Program aims to provide society with digital vector, structured, integrated, seamless and updated topographic maps of the Brazilian territory at a scale of 1:250.000, with information on positioning, geographical names, and classification of the represented elements. The vector data allow users to edit and adapt data to their needs. The Seamless Cartographic Base may be accessed at: [ftp://geofpt.ibge.gov.br/mapeamento\\_sistematico/base\\_vetorial\\_continua\\_escala\\_250mil/](ftp://geofpt.ibge.gov.br/mapeamento_sistematico/base_vetorial_continua_escala_250mil/).

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The seamless version of the Topographic Map at scale of 1:250.000 was obtained from the joint and refined data of 11 blocks that made up the first version of the BC250 launched in August 2012. In this previous version, it was only possible to obtain continuous information within each map block separately. Current cartographic information were obtained by updating the existing mapping or through new mapping using both satellite images and data from field activities or with data provided by sector's partner agencies. The Seamless Nationwide Topographic Cartography for scale 1:250.000 by IBGE was built to serve as cartographic reference to actions on planning, monitoring and land management as well as for updating of information of the country's natural resources.

### CHILE

#### New Layer on Miners "Reservoir" in Chilean SDI Map Viewer

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

The National Service of Geology and Mining (in Spanish SERNAGEOMIN) has provided the Chilean SDI with a new layer on mineral deposits, including information from the Arica and Parinacota Regions to the Libertador Bernardo O'Higgins Region. The deposits information is provided directly by SERNAGEOMIN from its [GEOMIN](#) portal and is used by the Chilean SDI by way of the Web Map Service (WMS) standard. See the Chilean SDI map viewer at: <http://www.geoportal.cl/Visor/>



### COLOMBIA

#### IDECA Undertakes Research Work

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

The Spatial Data Infrastructure for the Capital District of Bogota, Colombia (in Spanish IDECA ), has taken up the challenge of promoting SDI research and innovation by way of research projects to be developed in the medium term. The institutional purpose of such projects is the construction of new knowledge and initiatives tailored to specific technology and geographic information for economic, social and environmental benefits derived from their proper use and in support to good governance in the city. In this context, the IDECA Working Group on Research and Innovation was established as to promote and encourage knowledge production and dissemination for innovation and best practice, as well as the development of the Working Group research skills. This initiative aims at fostering innovation projects addressing specific issues in the city, proposing solutions and new knowledge on geographic information management, and understanding of territorial phenomena. The latter will be communicated as documentary publications and in the IDECA web portal as to disseminate results and products for the benefit of the Community at the District and National levels.



### COSTA RICA

#### Finance Ministry ONT receives Latin-American Award for Excellence in GIS

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



The ESRI Latin America Users Conference Executive Committee gave the Latin American Award for Excellence in GIS to the work done by the Technical Standards Body of the Ministry of Finance Directorate General of Taxation, on the Construction of Homogeneous Areas Agricultural Value Platforms, using ArcGIS. This award was presented at a special ceremony held during the Esri Latin American Users Conference held on October 16-18, 2013 in the city of Lima (Peru).

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### MEXICO

#### 2013-2018 National Statistics and Geography Program

Source: <http://www.snieg.mx/>

The 2013-2018 National Statistics and Geography Program (in Spanish PNEG) was approved by the Governing Board of the INEGI at its meeting on September this year, according to provisions of the Law on the Statistical and Geographic Information National System. The 2013-2018 PNEG defines the set of activities and projects to be implemented during the presidential term by the State Units, consistent with the provisions of the National Statistical and Geographic Information System Strategic Program, and the National Development Plan on matters relating to the National Information Subsystems. It is also geared to produce information leading to a better knowledge of the country's territory and its economic, social and environmental realities. The PNEG 2013-2018 consists of 10 Objectives, 36 Projects, 73 goals and 155 General Activities, that will be conducted by the State and INEGI Units -UCC for next six years as to assure development of the System Strategic Program goals, the information requirements of the National Development Plan 2013-2018 and proper consolidation of the system. The 2013-2018 National Statistics and Geography Program may be viewed [here](#).



### NICARAGUA

#### On the development of an SDI in Nicaragua

Source: <http://www.ineter.gob.ni/>

In the Nicaraguan Institute of Territorial Studies (in Spanish INETER), the National Cartographic Institute has been completely redesigned and integrated into the Department of Geodesy and Cartography (in Spanish DGGC), which also has a new addition to the traditional instances of Geodesy, Cartography and Photogrammetry, which is the Applied Geomatics Management Directorate (in Spanish GGMA). Responsibilities of this Directorate include encouraging the use of tools for both technological and Spatial Data Infrastructure (SDI) development, by integrating required photogrammetric, surveying and mapping systems, as well as specialized databases for national thematic mapping. Between 2001 and 2011 the Map Production System associated with a national basic geographic information system GIS called SPM / GIS was developed, which in essence is the local SDI exclusively applied to national mapping, resulting of efforts of DGGC leading experts and technical assistance and financial support of the NGA through cooperative relationships. The GOT working group (Territorial Ordering Group created in 2005) involving major state institutions and universities, is not only concerned with land administration issues but also with NSDI and e-government related topics. One result of this Group was a proposal to establishing a National Commission for the development of the National SDI (in Spanish CONIDE ). More information: [here](#). The following are Cartographic Standards and Technical Specifications that have been developed: [Geodesic geodesic Interoperability](#) / [Technical Guide for Geodetic Surveying](#) / [Classification and Structuring of Cadastral Geographic Information](#) / [MobileMapper GPS Users Manual](#)

### PERU

#### [Peru Geoserver](#)

Source: <http://geoservidor.minam.gob.pe/>



It is a mechanism for geospatial information dissemination and exchange provided for its use by professionals, government sectors, regional governments, local governments and civil society in general. Relevant, trustable and updated information on the land and environmental situation in the country may be access through the internet. The Geoserver is a product developed by the Directorate General of Territorial Ordering (in Spanish DGOT), thanks to efforts of the Ministry of Environment-SIGMINAM

Geographic Information System Working Group. Detailed information and access to services: [here](#).

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### URUGUAY

#### "Strategic Guidelines for Geographic Information" were Approved:

Source: <http://ide.uy/inicio>

The "Strategic Guidelines for Geographic Information" within the Spatial Data Infrastructure of Uruguay (in Spanish IDEuy) were approved. One of the main tasks of a Spatial Data Infrastructure is the development of technical standards that bracket geographic information production, processing and distribution. These guidelines are intended to creating the framework for geographic information management and reconciliation of production and dissemination in the country for the purpose of achieving standardization, interoperability, quality and availability. The Guide proposes principles and lines of action that should lead geographic information development and updating. These will be an integral part of the involved organizations' plans and actions. [Download Geographic Information Strategic Guidelines.Pdf \(159 KB\)](#).



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### Articles and Publications of the Month

#### **D\_City manifesto**

Source: Douglas D. Nebert by way of Santiago Borrero



The Group on Earth Observations (GEO) has sponsored two print runs of the D\_City manifesto: the world's first comprehensive 'snapshot' report on efforts to create a networked environmental monitoring system. Warmly received by several hundred geospatial scientists attending the latest International Society for Digital Earth (ISDE) conference in Kuching, Malaysia in September 2013, [the D\\_City: Digital Earth | Virtual Nations | Data Cities](#) report also is being commended by publishers and editors of the top three international geospatial trade publications ([Geospatial World](#), [Sensors and Systems](#) and [Apogeo Spatial](#)), the science and development network (SciDev.Net), architecture book publishers [Actar](#), and the quarterly journal for city governments (Cities Today). They are all supporting different aspects of the emerging 'Science for Cities' and 'Data Cities' movement. Shortly before the ISDE conference, GEO and the ISDE issued a [joint media release](#) announcing GEO's approval of the report, which was co-edited by two founders-leaders of the ISDE's digital cities working party, Davina Jackson and Richard Simpson. They collaborated on D\_City (the 'D' being defined as 'dynamic digital data design for decent development') to help educate next generation urban development professionals about effective ways of using geospatial technologies. The D\_City report can be read and downloaded at [dcitynetwork.net/manifesto](http://dcitynetwork.net/manifesto). It has been online since early 2012. The current update includes a 'Postscript' summary of latest advances supporting the GEO-coordinated 'global Earth observations system of systems' (GEOSS) project. These recent ventures include the International Council for Science's Future Earth project and programs promoting cities and the emerging 'space economy' at the Organization for Economic Co-operation and Development. Geospatial World has published an interview with D\_City co-editor and 'network catalyst' Davina Jackson, on its '[Asia Geospatial Digest](#)' site.

#### **DIMENSIONS: The Newsletter of the AAG Human Dimensions of Global Change Specialty Group**

Source: John Patrick Connors

The most recent HDGC newsletter (DIMENSIONS No.2) can be found at the HDGC web site. Several new jobs have been included. <https://sites.google.com/site/aaghdgc/newsletter> HDGC provides a forum for members to share information about their ongoing research activities, new data sets, funding opportunities, and other matters of concern to the HDGC community.



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# Global Spatial Data Infrastructure Latin America and the Caribbean Newsletter

## Geospatial Research, Applications, Software, Data

### [Matterhorn mapped by fleet of drones in just 6 hours](#)

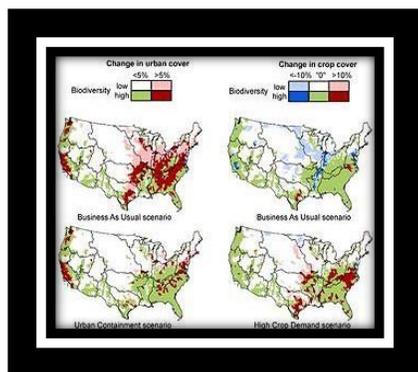
Source: Arturo Brun-Martinez

The Matterhorn, which juts out a full kilometre above the surrounding Swiss Alps, dominates the local skyline and has challenged countless mountaineers since it was first scaled in 1865. Now this iconic peak has been mapped in unprecedented detail by a fleet of autonomous, fixed-wing drones. A camera, flung into the sky from the summit by their makers. What's more, the entire process took just 6 hours. The mapping, which was unveiled at the [Drones and Aerial Robotics Conference](#) in New York City last weekend, was carried out by unmanned aerial vehicle (UAV) company SenseFly, and aerial photography company Pix4D. Three eBee drones were launched from the top of the mountain, skimming their way down 100 metres from the face, capturing points just 20 centimetres apart. When they reached the bottom, a second team intercepted the drones and relaunched them for further mapping. Speaking to Mapbox, the mapping company that built the 3D point cloud of the mountain when the drones had landed, SenseFly's Adam Klaptocz said: "Such a combination of high altitudes, steep rocky terrain and sheer size of dataset has simply not been done before with drones, we wanted to show that it was possible."



### [Study puts freshwater biodiversity on the map for planners and policy makers](#)

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



When it comes to economic growth and environmental impacts, it can seem like Newton's third law of motion is the rule - for every action, there is an equal and opposite reaction - and that in most cases, the economy prospers and the environment suffers. A team of University of Wisconsin-Madison researchers is hoping to help change that narrative and add a little ecology to economic decision making by forecasting how future policies regarding urban development and agricultural cultivation may impact aquatic ecosystems, which harbor astounding amounts of biodiversity and provide humans with vital goods and services. Using computer modeling and GIS mapping, Martinuzzi and the team developed four different scenarios to help illustrate future human endeavors. In their models, the researchers found that the news isn't all bad. The study was also able to put a number on the give-and-take of economic and ecological considerations. For example, under a "business as usual" scenario where policies remain as they are today, 34 percent of watersheds are expected to be impacted by urban development while, in an "urban containment" scenario, only 13 percent of watersheds would be affected as the spread of urban areas is minimized.

### **New gvSIG Scripts Repository**

Source: gvSIG News Office



This new section within the gvSIG Outreach website is intended to serve a gvSIG Script Repository [\[http://outreach.gvsig.org/scripts\]](http://outreach.gvsig.org/scripts) that allows seeing examples, searching by categories [\[http://outreach.gvsig.org/scripts/browse\]](http://outreach.gvsig.org/scripts/browse) and the valuation of each script. This repository was flexibly designed as to include inputs by the community, so that any user wishing to contribute [\[http://outreach.gvsig.org/contribute\]](http://outreach.gvsig.org/contribute) may directly upload their scripts. One innovation introduced with gvSIG 2 version is the inclusion of an environment for development and execution of scripts that interact with the application. These scripts consent automation of small tasks or adding fault functionality. Jython is the language chosen by gvSIG project to support scripting, which is an implementation of the Python language that 'runs' in the Java Virtual Machine (JVM) thus allowing fully integration with

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gvSIG. Beyond the utility of each script, along with the developer's guide [<http://www.gvsig.org/web/projects/gvsig-desktop/docs/user/gvsig-desktop-2-0-scripting/developer-guide>], this repository will be a compendium of examples for interested users to learn how to program their own scripts. To upload gvSIG scripts that are available in this repository you may see the following video [[http://www.youtube.com/watch?v=7c\\_6KetDOAM](http://www.youtube.com/watch?v=7c_6KetDOAM)].

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## Training and Funding Opportunities, Awards

### MSc course by distance learning on GIS and EO

Source: Andrew Skidmore,



A new MSc course by distance learning is being launched by ITC/University of Twente and University of Lund. <http://www.igeon.eu/>. The iGEON programme is a high quality Master of Science programme through e-learning with focus on Geographic Information Systems and Earth Observation for Environmental Modeling and Natural Resource

Management. In the iGEON programme you gain knowledge on topics that are currently high on the international agenda, such as food security, water management and climate change. In addition you become an expert in the rapidly expanding field of geographic information systems and remote sensing. The program follows the standard semester structure. Detailed program structure may be found [here](#).

### New Geo for All website launched

Source: Sergio Acosta y Lara

The new website of the ICA-OSGeo lab initiative has been launched. Many thanks to Jason Sadler and colleagues at the University of Southampton, UK who <http://www.geoforall.org/> developed and are hosting the central site for our rapidly growing network. The motto of ICA-OSGeo Labs initiative is "Geo For All." By combining the potential of e-learning tools and open source



geospatial software, the academic community can strengthen education in GIScience providing students with holistic education covering open source, open standards, and open data in geospatial technology. The widespread application of e-learning tools and open source GIS will increase access to GIS education. Free and open GI software helps make geospatial education available to students from economically poor backgrounds worldwide (removing the need for high cost proprietary GI software). Our key aim is to make it possible for students in developing and poor countries to be also able to get geospatial education. We also will be starting work on "Train the Trainer" GIS programs for school teachers all over the world. It is very important to have open source GIS and standards (OGC, ISO TC 211) based solutions to achieve widespread application of geotools at grassroots level especially in developing countries. Open source GIS provides accessibility, low cost solutions and lowers the entry barriers for the use of geospatial technologies for all. We look forward to working with you all for making geospatial education and opportunities accessible to all. More details of our website and mission at <http://www.geoforall.org>. Related URL: [OSGeo Educational wiki page](#) / [ICA-OSGeo Labs new website](#) / [New Lab homepage](#)

### Opengeoscience: meeting the UK's geospatial data requirements in geosciences

Source: Sergio Acosta y Lara

The ICA-OSGeo Lab Network and MundoGEO are now pleased to inform the second webinar of "Open Geospatial Science & Applications" webinar series, on November 7th. Open and free to all on first come register basis, the webinar will be

GoToMeeting

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on "Opengeoscience: meeting the UK's geospatial data requirements in geosciences", by Patrick Bell and Gerry Wildman (British Geological Survey). In December 2009, the British Geological Survey released OpenGeoscience, a free open access web portal that provides the public with a wealth of geological information which they can combine with other environmental information to help understand the world around them. OpenGeoscience is made available under the Open Government License. Date: Thursday, November 7, 2013 / Time: 2:00 PM - 3:00 PM GMT. Reserve your Webinar seat now at: <https://www2.gotomeeting.com/register/446065050>

### [IGNTG Panama Held Geographic Names Seminar](http://ignpanama.anati.gob.pa/)

Source: <http://ignpanama.anati.gob.pa/>



The National Geographic Institute "Tommy Guardia " (in Spanish IGNTG) held an on-site training on Geographic names for 30 technicians in order to enhance knowledge of staff working on updating the National Topographic Mapping at scales of 1: 25 000 to 1:5 000. It is important to know that the study of place names or geographical names is a spatial science in an attempt to identify, analyze and classify our environment and its components. The process of naming is a human effort to provide spatial reference points in geographic areas and is essential for mapping applications including emergency preparedness and a multitude of similar categories. So this training will contribute favorably to strengthen the work of identifying place names across the country as part of the generation of a new Map of the Republic of Panama. For IGNTG director, Dr. Israel Sanchez, this seminar is very important and will serve to update relevant methodological guidelines for place name identification in the country. This seminar was organized by the Pan-American Institute of Geography and History (PAIGH), the United States PAIGH National Section, the Panama PAIGH National Section and the National Geographic Institute "Tommy Guardia" (in Spanish IGNTG - ANATI) whose facilitators are Dr. Roger L. Payne (Geographer, Toponymist , Historian), Dr. Ramon Rivera (Geographer, Toponymist , Historian ) and Dr. George Troop Chief of the Latin American Section (NGA)

### **Lincoln Institute announces 2013-2014 Program**

Source:Maureen Clarke

The Lincoln Institute's annual Program for 2013-2014 presents a comprehensive overview of the Institute's mission and its diverse programs for the academic year. It includes department descriptions; courses, seminars, conferences, and online education programs; research, demonstration, and evaluation projects; publications and multimedia products; web-based resources and tools; and lists of fellows and faculty. The complete 76-page document is [posted on the Lincoln Institute website](#) for free downloading. To request a print copy, send your complete mailing address to [help@lincolninst.edu](mailto:help@lincolninst.edu).



### **Request for Expressions of Interest - CaMPAM Mentorship Program**

Source: San-andres users list



CaMPAM is pleased to announce a Request for Expressions of Interest (REOI) for marine resource professionals who seek to participate as mentees in the upcoming Mentorship Program for Caribbean Marine Protected Areas (MPA) managers/practitioners. Eight senior marine resource professionals (mentors) from around the Caribbean are collaborating closely with CaMPAM to develop strategic lines of action, a programmatic framework and a work plan to guide the development of the Mentorship Program. Acting on the request of marine resource professionals from across the region, CaMPAM is facilitating the design and "pilot" launch of a Mentorship Program for Caribbean MPA managers. Please note that REOI responses are limited to individuals who currently serve in a manager capacity at a MPA in the Wider Caribbean, with priority given to countries that are Parties of the SPAW Protocol of the

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Cartagena Convention. All formal REOI submissions should be sent to: [mentee@spawcampam.org](mailto:mentee@spawcampam.org). The deadline for submissions is **November 30th**, 2013. The CaMPAM Mentorship Program Project Team will notify you upon demonstrated potential to be matched with a current CaMPAM mentor. Not all submissions are guaranteed a match. Any inquiries about the program or submission requirements can be addressed to following individuals: -Georgina Bustamante: [gbustamante09@gmail.com](mailto:gbustamante09@gmail.com) (CaMPAM Coordinator) or- Rich Wilson: [rich@seatoneconsulting.com](mailto:rich@seatoneconsulting.com) (on behalf of CaMPAM)

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### Employment Opportunities

#### Assistant Professor "Land Management", University of Twente

Source: Andrew Skidmore



Faculty of Geo-Information Science and Earth Observation

UNIVERSITY OF TWENTE.

You contribute to the educational activities, analysing the needs of society regarding Land Management in relation to Land Administration, development, preparation and execution of courses and education modules related to the field of expertise, development of new educational products (e.g. e-learning), evaluation of educational activities and supervision of MSc students. You contribute to the acquisition and execution of project services. You contribute to the work in international academic partnership networks, as well as to general administrative duties as may be required by the Department. You support the Professor in the development, acquisition and execution of research, including research planning and implementation, acquisition of external and internal research funds, coordination and supervision of PhD candidates and dissemination of findings via academic papers and other publications. Detailed information may be found [here](#).

#### Remote Sensing/GIS Position Open at Michigan State University

Source: Alan F. Arbogast

MICHIGAN STATE  
UNIVERSITY

MSU Applicant Page



The Department of Geography at Michigan State University invites applications for a tenure system appointment at the rank of Assistant Professor in the area of remote sensing and geographic information science. Outstanding candidates with a research focus in any area of applied remote sensing and geographic information science will be considered. Successful applicants will be expected to develop a strong externally funded research program and all candidates must demonstrate a funding plan or related strategy. The successful candidate will also exhibit excellence in undergraduate and graduate teaching. Candidates will be expected to teach high-quality courses across the remote sensing spectrum, and special consideration will be given to those candidates who can also offer courses in cartography/geovisualization. All applications should include a curriculum vitae, statement of interest, examples of published research, and names (only) of three references. The prospective appointment begins August 2014. A Ph.D. in Geography or related field is required by the date of appointment. Questions may be directed to Dr. Ashton Shortridge, Chair of the Search Committee ([ashton@msu.edu](mailto:ashton@msu.edu)). All applications must be submitted through the MSU Applicant Page website at: <https://jobs.msu.edu/applicants/jsp/shared/frameSet/FrameSet.jsp?time=1383314539207>. Review of applications will begin on **December 11**, 2013 and will continue until the position is filled. For more information about the MSU Department of Geography, please visit the website at: <http://www.geo.msu.edu>.

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### Assistant Professor specializing in GIS at Salisbury University

Source: Michael Scott

We are currently searching for an Assistant Professor specializing in GIS to join our team at Salisbury University. (<http://www.salisbury.edu/HR/Jobs/single.asp?ident=1767>) This is a unique opportunity for the young professional who doesn't want to get locked in to the traditional academic grind. This position will primarily support our on-line MS in GIS Management program (<http://www.salisbury.edu/geography/msgism/>), giving the right candidate a great deal of flexibility in scheduling and travel. You would be teaching a group of professionals that are highly motivated, committed to the program, and very engaging.



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### Other

### [Astronomers Discover Farthest Known Galaxy](#)

Fuente: <http://www.utexas.edu/>



WHAT STARTS HERE CHANGES THE WORLD  
THE UNIVERSITY OF TEXAS AT AUSTIN

As the [McDonald Observatory gears up to celebrate its 75th](#) year as an internationally renowned scientific hub, astronomers at UT have yet another landmark discovery to be proud of: spotting and measuring the most distant galaxy ever found. The galaxy, dubbed z8\_GND\_5296, was pinpointed after a research team led by UT assistant professor [Steven Finkelstein](#) selected it - and 43 others - for further review out of the more than 100,000 galaxies discovered by the [Hubble CANDELS](#) survey. Because of the speed at which light travels, the astronomers are able to see the galaxy just as it was 700 million years after the Big Bang - literally looking into the Universe's past. Assistant professor of astronomy Steven Finkelstein said "We like to study how we came to be: humans, civilizations, society, galaxies," Finkelstein says. "When you look back at distant galaxies, things look very different. How did they go from little bumps to big, beautiful spirals? By looking at galaxies far away, we can kind of play a movie of how the Universe was formed. "With the help of the Keck I telescope in Hawaii, Finkelstein and his team were able to definitively confirm that Galaxy z8\_GND\_5296 is the farthest and earliest ever discovered using spectroscopy, or measuring how much a galaxy's light wavelengths have shifted toward the red end of the spectrum as they make their way toward Earth - a phenomenon called redshift. Galaxy z8\_GND\_5296 has the highest redshift ever confirmed, indicating that it originated only 700 million years after the Big Bang (or 5 percent of the Universe's current age of 13.8 billion years). The more distant galaxies we study, Finkelstein says, the closer scientists get to being able to study the Universe's mysterious beginnings. "It's hard to make broad conclusions based on one galaxy, but this particular object is surprising," he says. Case in point: the galaxy is forming stars extremely rapidly, at a rate of 150 times that of our Milky Way. Because the galaxy that previously held the distance record had a similarly high rate, researchers now know there are more regions of extreme star formation than previously thought. Despite this incredible finding, however, Finkelstein was still perplexed. [To read more please visit [Alcalde](#)]. For more detailed information about Finkelstein's findings, check out [McDonald Observatory's website](#).

### [Shift to a new climate likely by mid-century – study](#)

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



THOMSON REUTERS  
FOUNDATION

Billions of people could be living in regions where temperatures are hotter than their historical ranges by mid-century, creating a "new normal" that could force profound changes on nature and society, scientists said. Temperatures in an average year would be hotter by 2047, give or take 14 years, than those in the warmest year from 1860-2005 if the greenhouse gas emissions continue to rise, with the tropics

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the first affected area, a new index indicated. "The results shocked us. Regardless of the scenario, changes will be coming soon," lead author Camilo Mora of the University of Hawaii said. "Within my generation whatever climate we were used to will be a thing of the past. "The data suggested the cities to be hit earliest included Manokwari in Indonesia, which could shift to a new climate from 2020 and Kingston, Jamaica, from 2023 under the fastest scenario of change. The tropics are most vulnerable to shifting to a new state because the climate was naturally in a narrow band, they said. The Arctic is now suffering the fastest absolute temperature rises, but temperatures have naturally swung widely in history.

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### Americas: Conferences, SDI Events

#### [20th General Assembly and Consultation Meetings of the Commissions of PAIGH](#)

Source: Santiago Borrero

The Technical Consultative Meeting and 20th General Assembly of PAIGH are just around the corner and will take place in Montevideo, Uruguay with the generous and efficient organization of the National Section chaired by the Director of the Military Geographic Service of Uruguay, Col. Cesar Rodriguez Tomeo and his staff. Montevideo is a city characterized by its tranquility, the warmth of its people and the strength of the 21st century-Uruguayan so this is a great opportunity to participate in planning the Institute for the period 2013 to 2017 and to visit one of the southernmost special places in the region. This time, in addition to taking stock of what has been the technical activities and development experienced by the Pan American community in recent years, the main statutory events and the election of new officers of the



Institute will take place, and PAIGH will be screened once again, as the intergovernmental Pan-American organization at the head of regional topics in cartography, geography, history, and geophysics. More information: [Local Organizing Committee webpage, program, agenda and documents, registration, accommodation](#)

#### **5<sup>th</sup> Ibero-American Symposium on the History of Cartography**

Source: Arturo Brun-Martinez



Organized by the [University of the Andes](#) and [Cartographic Reason: Network for Colombian History of Geographies and Cartographies](#), the 5th Symposium of Ibero-American History of Cartography (5SIAHC) will be held on September from 24-27, 2014 at the University de los Andes, Bogotá, Colombia, continuing the process begun in Buenos Aires (2006), Mexico City (2008), São Paulo (2010) and Lisbon (2012). Continuing the tradition of previous Symposia, event registration will be free for all speakers and participants. Deadline for preregistration for abstracts and speakers is **November 15, 2013**. Contact: [5siach@uniandes.edu.co](mailto:5siach@uniandes.edu.co)

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YEAR 2013

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## NOVEMBER 2013

Oct. 21- Nov. 2 <b>*NEW*</b>	Lima, Peru	<a href="#">Geographic Information Systems (GIS) applied to Health 2013</a>
3-6 <b>*NEW*</b>	St. Louis MO, USA	<a href="#">Locating The Future Conference</a>
4-6	Atlanta GA, USA	<a href="#">Spatial Plexus '13</a>
4-8	Addis Abbaba, Ethiopia.	<a href="#">AfricaGIS 2013 Conference and the GSDI 14 World Conference</a>
4-8	Turrialba, Costa Rica	<a href="#">Biodiversity Analysis: from Functional Diversity to Ecosystem Services</a>
4-8	New York NY, USA	<a href="#">Geoweb Summit #7</a>
5-7	Québec, Canada	<a href="#">Geo-Services International Conference</a>
5-7 <b>*NEW*</b>	Beach Gardens FL, USA	<a href="#">Smart Grid Interoperability Panel Inaugural Conference</a>
5-7 <b>*NEW*</b>	Córdoba, Argentina	<a href="#">10<sup>th</sup> Biennial discussion of territorial transformations</a>
5-8	Orlando FL, USA	<a href="#">21st International Conference on Advances in Geographic Information Systems (ACM SIGSPATIAL GIS 2013)</a>
5-8 <b>*NEW*</b>	San Juan de Pasto, Colombia	<a href="#">Andean Congress on Computing Information and Education - CACIED 2013.</a>
6-9	Havana, Cuba	<a href="#">3rd International Congress on Local Development "For Local Sustainable Development"</a>
Nov.7-Dec.5	New Brunswick NJ, USA	<a href="#">ArcGIS: Editing and Data Development</a>
7	Atlanta GA, USA	<a href="#">Geoweb Summit #7</a>
7-8	San Diego CA, USA	<a href="#">Blue Tech and Blue Economy Summit: Marine Spatial Planning and Promoting Sustainable Development in the Blue Economy</a>
11-15 <b>*NEW*</b>	Quito, Ecuador	<a href="#">Course-Workshop &amp; Conference: GIS and Remote Sensing</a>
11-16 <b>*NEW*</b>	Puebla, México	<a href="#">12<sup>th</sup> International Symposium on Sustainable Agriculture</a>
12-13 <b>*NEW*</b>	Zapopan, Jalisco. México	<a href="#">Conference Cycle "Open Source GIS II, Guadalajara 201</a>
13-14	Alexandria VA, USA	<a href="#">MAPPS International Market Conference – Entering and Expanding Global Business Opportunities</a>
13-14	Alexandria VA, USA	<a href="#">International Conference on Exporting for Geospatial, Engineering and Related Services</a>
13-14	Huntsville AL, USA	<a href="#">GEO-Energy-Cyber Huntsville Summit</a>
13-15	Salt Lake City UT, USA	<a href="#">Esri Southwest User Conference</a>
13-16	Atlanta GA, USA	<a href="#">60th Annual North American Meetings of the Regional Science Association International</a>
14	Manizales, Colombia	<a href="#">Memory, Space and Society Conference series</a>
14-15 <b>*NEW*</b>	Huntsville AL, USA	<a href="#">GEO-Energy-Cyber Huntsville Summit</a>
17	Montevideo, Uruguay	<a href="#">6th Meeting of GeoSUR Program</a>
18 - 19	Montevideo, Uruguay	<a href="#">22<sup>nd</sup> Meeting of Consultation of the Commission of Cartography, 19 Meeting of Consultation of the Commission on Geography, 18 Meeting of Consultation of the Commission on History and 12th Meeting of Consultation of the Commission on Geophysics of PAIGH</a>
18-21 <b>*NEW*</b>	Montevideo, Uruguay	<a href="#">Office for Establishing an Electronics Survey Seminar: Components and Services Defining. Integration of Electronic Cadastral Office on National Spatial Data Infrastructure</a>
18-22	Río de Janeiro, Brazil	<a href="#">13<sup>th</sup> National Symposium on Urban Geography - SIMPURB</a>
18-22	Mar del Plata, Argentina	<a href="#">7<sup>th</sup> Latin America and the Caribbean Meeting for Biotechnology REDBIO Argentina 2013</a> "Biotechnology and Society: Dialogues for Sustainable Development"
18-29	Bogotá, D.C. Colombia	<a href="#">IGAC Announces a Basic GIS Course</a>
19-20	Tallahassee, FL USA.	<a href="#">2013 SHRUG GIS Work Shop</a>

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20	World wide	<a href="#">GIS Day</a>
20-22	Bogotá, D.C. Colombia	<a href="#">First International Geographical Congress, Tourism: Prospects and Challenges in Colombia. Culture, environment, public policy and land</a>
20-22	Montevideo, Uruguay	<a href="#">20 General Assembly of the PAIGH</a>
21-24	Chicago IL, USA	<a href="#">38<sup>th</sup> Annual Meeting of the Social Science History Association (SSHA)</a>
24-26	Roanoke VA, USA	<a href="#">Southeast (SEDAAG) Division Regional Meeting</a>
25-29	Puebla de Zaragoza, México	<a href="#">2<sup>nd</sup> International Course on Open Government</a>
Nov.25 – Dec.6	Turrialba, Costa Rica	<a href="#">International Course: Comprehensive Management of Irrigation: Resilience to natural hazards geological and climatic</a>

### DECEMBER 2013

2-4 <b>*NEW*</b>	Lima, Peru	<a href="#">9<sup>th</sup> Latin American and Caribbean Monitoring and Evaluation Conference</a>
2-6	Lima, Peru	<a href="#">15th UN Industrial Development Organization (UNIDO) Conference 2013</a>
3-5	Las Vegas NV, USA	<a href="#">Autodesk University</a>
10-11	Baltimore MD, USA	<a href="#">Esri Mid-Atlantic User Conference</a>

## Year 2014

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### JANUARY 2014

5-11	Panamá City, Panamá	<a href="#">Conference of Latin Americanist Geographers</a>
28-30	San Antonio TX, USA	<a href="#">DistribUTECH 2014 Conference and Exhibition</a>
29-30	Redlands CA, USA	<a href="#">Geodesign Summit Asks Attendees to Reimagine Their World</a>

### FEBRUARY 2014

6-27 <b>*NEW*</b>	New Brunswick NJ, USA	<a href="#">ArcGIS: Introduction Learn GIS Mapping System Software Through Hands-On Training Course</a>
9-13	La Jolla CA., USA	<a href="#">MAPPS Winter Conference</a>
17-19	Denver CO, USA	<a href="#">International LiDAR Mapping Forum [ILMF] Conference</a>
23-26	Annapolis MD; USA	<a href="#">NSGIC National States Geographic Information Council 2014 Midyear Meeting</a>
24-27	Jacksonville FL, USA	<a href="#">18th Annual GIS/CAMA Technologies Conference</a>

### MARCH 2014

3-5 <b>*NEW*</b>	Ottawa, Canada	<a href="#">Geospatial Advancement Canada 2014</a>
23-27	Louisville KY, USA	<a href="#">ASPRS 2014 Annual Conference- Geospatial Power in Our Pockets</a>
27-29	Malargüe – Mendoza, Argentina	<a href="#">10<sup>th</sup> Physical Geography National Working days</a>

### APRIL 2014

8-12	Tampa FL, USA	<a href="#">AAG Annual Meeting 2014</a>
14-17 <b>*NEW*</b>	Tampa FL, USA	<a href="#">GEOINT 2014</a>
Apr.27-May 1	Kansas City MO, USA	<a href="#">MAGIC 2014</a>

### MAY 2014

6-8 <b>*NEW*</b>	Burlington VT, USA	<a href="#">Geospatial Information Systems for Transportation Symposium</a>
7-9	Sao Paulo, Brazil	<a href="#">MundoGEO#Connect 2014</a>
7-9	Tandil - Buenos Aires, Argentina	<a href="#">Third National Working days on Argentina Research and Teaching in Geography and Ninth Working days on Research and Extension Center Geographical Research - Geography: the challenge of building inclusive territories</a>
27-29	Guayaquil, Ecuador	<a href="#">Fourth Disaster Risk Reduction Session of the Regional Platform for the Americas 2014</a>

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### JUNE 2014

2-5	Las Vegas NV, USA	<a href="#">HxGN LIVE 2014 - Hexagon International Conference</a>
To be determined <b>*NEW*</b>	São Paulo - SP - Brazil	<a href="#">History of Cartography, Historical Cartography and Digital Cartography</a>

### SEPTEMBER 2014

14-18	Charleston SC, USA	<a href="#">NSGIC National States Geographic Information Council 2014 Annual Conference</a>
24-27 <b>*NEW*</b>	Bogotá, Colombia	<a href="#">5<sup>th</sup> Ibero-American Symposium on the History of Cartography (5siach)</a>

### OCTOBER 2014

22-24	Ft. Worth TX, USA	<a href="#">Race, Ethnicity and Place 2014 Conference</a>
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### NOVEMBER 2014

5-7	Córdoba, Argentina	<a href="#">X Biennial Colloquium of Territorial Transformations</a>
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