

# 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.



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# GSDI

[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

In the current SDI-LAC issue the **Global and Regional SDI** section includes information on the Third Preparatory Meeting of the Proposed United Nations Committee on Global Geospatial Information Management (UN-GGIM); the OGC Technical Meetings, and the PAIGH Crisis Support Workshop and International Charter Class, which will take place on June; A note on the OGC Iberian and Latin-American Forum (ILAF); UN-SPIDER organized side events on Thematic Partnership for Latin America and the Caribbean (TP-LAC), and on "Integrated Use of Space Technologies for Disaster-Risk Reduction"; the establishment of a UNGIWG Task Group on Geospatial Information for Humanitarian and Emergency Response (GIHER); and relevant conferences to be held internationally. The **IGS** section highlights the Summer School on "Advanced Spatial Data Infrastructures" that will take place on July. The **National SDI** section include activities of Brazil, Jamaica, Mexico, Panama, and Uruguay: the Wiki of the National Spatial Data Infrastructure Committee of Brazil; A GeoSUR seminar hosted by Jamaica's LICJ and the CAF; the Mexican SINIEG'S 2010 Annual Report; The recently launched portal of Panama's National Geographic Institute "Tommy Guardia"; and a collaborative agreement between the Government of Uruguay and gvSIG Association for teaching Geographic Information related disciplines at public schools and colleges across the country. **Articles and Publications** of the month highlight the First Edition of

*FOSSGIS Brazil Journal*; Selected papers of the *International Journal of Digital Earth* for free download in 2011; the Brigham Young University's Online Open Geospatial Encyclopedia; and a CRISP Programme publication on *Acidification and coral reefs*. **Geospatial Research and Applications** comprise notes on the Fifth major Cadastral Working Day in Venezuela; OGC's netCDF Standard for Communicating Multidimensional Data; and the recently released new gvSIG 1.11 final version. The **Training and Funding Opportunities** section encompasses calls for international and national programs, among them the Course on New Technologies for Improving Spatial Geoservices for Better Development Planning in Mesoamerica and the Caribbean; the recently launched gvSIG Training Platform; Geomatics & Cartography new Post Graduate Degrees of the University of Glasgow, UK; and the Online Training Kit on Participatory Spatial Information Management and Communication. Finally, several **Events taking place in the Americas** are highlighted in the last section.

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

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### Input to this Issue

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Santiago Borrero	Secretary General, Pan-American Institute of Geography and History, PAIGH, Mexico
Arturo Brun-Martínez	Architect, Colombia
Joep Crompvoets	Leuven University, Belgium
Claire Dupré	CRISP Coordinating Unit, Coral Reef Initiatives for the Pacific Programme, Secretariat of the Pacific Community, Noumea, New Caledonia
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Mike Shand	FRSGS; MAppSci; FBCartS, GIS Cartographer, Geographical & Earth Sciences, University of Glasgow, Scotland, UK
Carmelle J. Terborgh	GSDI Industry Advisory Council, Chair, Societal Impacts Committee, GSDI, and Federal/Global Affairs Team Lead and Account Manager, ESRI, USA
Kate Trevelyan-Hall	Foundations & Grants Associate, The Coral Reef Alliance (CORAL), San Francisco, CA, USA
Juan Carlos Villagrán	Programme Officer, UN-SPIDER, Office for Outer Space Affairs (UNOOSA), United Nations Office at Vienna, Austria
Dawn Wright	Professor of Geography and Oceanography, Oregon State University, USA

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### Global and Regional SDI, News, Presentations

#### Third Preparatory Meeting of the Proposed United Nations Committee on Global Geospatial Information Management

Source: FIG e-Newsletter, April 2011



**GGIM**

United Nations Initiative on  
Global Geospatial Information Management

The Third Preparatory Meeting of the Proposed United Nations Committee on Global Geospatial Information Management (UN-GGIM) was held at the UN Headquarters in New York on April 4–6, 2011. The meeting was attended by 22 UN member states, primarily from geospatial or national mapping authorities, five UN entities that includes the convenor, UNSD and apart from FIG, GSDI, ISCGM, ICA, ISPRS, EUROGI, JB-GIS and IHO. The UN-GGIM web site provides relevant information and papers related to this initiative (<http://ggim.un.org>). More information at [http://www.fig.net/news/news\\_2011/un\\_april\\_2011.htm](http://www.fig.net/news/news_2011/un_april_2011.htm)

#### OGC Technical Meetings and International Augmented Reality Standards Meeting 2011, Taiwan

Source: OGC Press Release by way of Santiago Borrero

The Open Geospatial Consortium (OGC®) announced that it will hold the next OGC Technical Committee and Planning Committee meetings (<http://www.opengeospatial.org/event/1106tc>) from 12-17 June 2011 in Taichung, Taiwan. The week's events will run concurrently with the Third International AR (Augmented Reality) Standards Meeting, which the OGC is hosting with the support of the Technical Committee and Planning Committee meeting sponsors. During the meetings in Taiwan there will be a very full agenda, including presentations and discussions in many of the OGC Domain Working Groups (<http://www.opengeospatial.org/projects/groups/wg>). The OGC facilitates

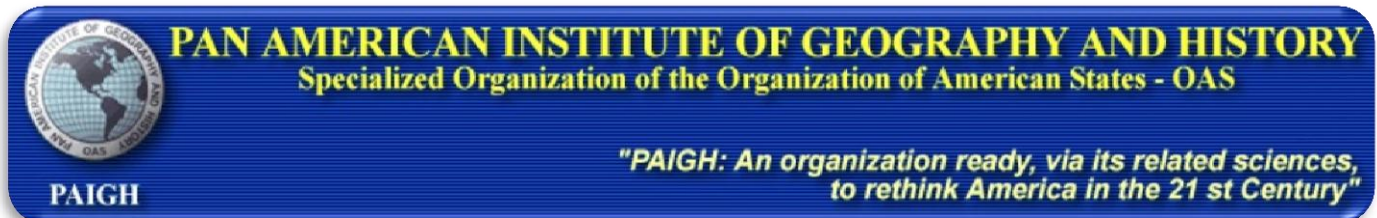
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more than 50 working groups made up of domain experts from across the world. These working groups provide a forum for discussion of key business and technical issues relating to geospatial information integration and interoperability. Before the meeting, OGC members will have voted whether to adopt Open GeoSMS, a candidate standard for encoding location in SMS messages. Taiwanese developers introduced the candidate Open GeoSMS standard into the OGC standards process. This candidate standard plays a role, along with SWE standards, in Taiwan's Debris Flow Monitoring system (<http://www.awareforum.org/2011/03/sensor-web-enablement-application-for-debris-flow-monitoring-system-in-taiwan/>) and other applications. An Open GeoSMS interoperability testing festival will be held during the week, in which various companies and developers will test the ability of their implementations to exchange Open GeoSMS messages among heterogeneous geospatial software products and services. For the purpose of further promoting and marketing the Open GeoSMS standard, ITRI will also contribute the Open GeoSMS logo under the Creative Commons Attribution (CC BY ND) and work with the OGC to promote the Open GeoSMS standard all over the world. "The GIS Research Center at Feng Chia University is glad to have the honor of hosting the 77th OGC TC meeting in Taiwan," said Lan-Kun (Peter) Chung, R&D Division Manager at the Center. "We have been involved in the OGC since 2006 and have been advancing OGC standards in government and enterprise applications. The value to users is obviously huge, and we are looking forward to improving the usability and extending the use of OGC standards in Taiwan and other Asian countries. "The OGC encourages interested parties to consider attending OGC meetings. Non-members may attend as guests with approval by the OGC. A limited number of discounted registrations will be provided on a first come basis. The OGC invites all persons interested in Augmented Reality (AR) to attend the two-day meeting of the community promoting open and interoperable AR through the adoption of standards. The AR meeting will be hosted by the OGC in conjunction with member meetings. More details are available on <http://www.perey.com/ARStandards/third-international-ar-standards-meeting/>. Meeting registration is open: ([https://portal.opengeospatial.org/public\\_ogc/register/ar\\_meeting.php](https://portal.opengeospatial.org/public_ogc/register/ar_meeting.php)) and the final meeting agenda will be published on May 15, 2011 at <http://www.perey.com/ARStandards/third-meeting-agenda/>.

#### PAIGH Crisis Support Workshop and International Charter Class, Panama

Source: Carmelle J. Terborgh



The Second Joint Technical Meetings of the PAIGH's Commissions will take place in Panama on June 15-17, 2011. As part of its parallel activities both the PAIGH Crisis Support Workshop (to be held on June 13-14), and the International Charter Class (to be held on June 15-16, 2011) will be conducted. Both events will take place at the Hotel Panama, Panama City, Panama, under the coordination of Leslie Armstrong of USGS/EDC. The deadline for registration is **May 15, 2011**. For your participation please see the [detailed agenda](#) of these events, and the registration forms both for the [PAIGH Workshop](#), and the [International Charter Class](#) (the class will be taught entirely in English and no simultaneous translation will be provided). For more information on the International Chart please log on to: <http://www.disasterscharter.org/home>. Contact: Leslie Armstrong [larmstrong@usgs.gov](mailto:larmstrong@usgs.gov)

#### OGC Iberian and Latin-American Forum (ILAF)

Source: OGC News April 2011 by way of Santiago Borrero

More than five years ago organizations and individuals in Spain and Portugal began working together to promote the use of OGC (Open Geospatial Consortium) standards in those countries' Spatial Data Infrastructure (SDI) programs. As others became interested, meetings were held, often in conjunction with SDI meetings in the Iberian region. There are longstanding relationships between Spain and Portugal and the countries of Latin America, so when an official OGC forum was chartered in 2010 it was given the name ILAF (Iberian and Latin-American Forum). An ILAF member organization,



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LATINgeo (Laboratories for Technology and Information in Geosciences), translated the OGC Reference Model, and other ILAF members have translated a number of OGC standards. A mailing list, [IL.A.Forum@opengeospatial.org](mailto:IL.A.Forum@opengeospatial.org), was set up, and it is open to all OGC members and non-members. ILAF maintains an external wiki - [http://external.opengeospatial.org/twiki\\_public/ILAFpublic/](http://external.opengeospatial.org/twiki_public/ILAFpublic/) - which provides access to Spanish language documents, coordinates activities, and generally serves to lower the barrier to OGC involvement by Spanish speakers. One goal is to expand the website to provide similar support for speakers of Portuguese. On 17 March, 2011, ILAF held a very successful OGC Interoperability Day in Barcelona. OGC vendor and scientific organization members demonstrated how their products and Web services work together with products and services from other vendors, and the talks about the OGC standards process, OGC standards and Sensor Web Enablement were well attended. Those interested in learning more about ILAF can contact Joan Maso at [joan.maso@uab.es](mailto:joan.maso@uab.es) or Joan Capdevila at [joan.capdevila@mpt.es](mailto:joan.capdevila@mpt.es) [By Athina Trakas, Director, European Services]. A presentation including main conclusions of the OGC ILAF Interoperability Day may be accessed through the above wiki.

### SPIDER Thematic Partnership LAC: Second Session of the Regional Platform for Disaster Risk Reduction of the Americas

Source: UN-SPIDER March 2011 Updates

UN-SPIDER participated in the Second Session of the Regional Platform for Disaster-Risk Reduction of the Americas organized by the International Strategy for Disaster Reduction (ISDR), the Civil Protection System of the Government of Mexico, and other international partners. The event gathered more than 300 stakeholders from North, Central and South America and also from the Caribbean region. UN-SPIDER organized a side event in the context of the SPIDER Thematic Partnership for Latin America and the Caribbean (TP-LAC) to showcase activities of the following partners: the Argentinean National Commission on Space Activities (in Spanish CONAE), Thermopylae S+T, Mexico's National Disaster Prevention Center (in Spanish CENAPRED), and Centre for Space Science and Technology Education for Latin America and the Caribbean (in Spanish CRECTEALC). The session allowed the SPIDER TP-LAC to present examples of the use of space-based information for disaster-risk management, in particular in case of drought and desertification, in particular geo-viewers, their application and training activities. More information may be found at: <http://www.un-spider.org/about-us/news/en/5046/2011-04-04t123700/spider-thematic-partnership-lac-second-session-regional>



### Side Event during the 3rd Session of the Global Platform for Disaster Reduction

Source: Juan Carlos Villagrán



The International Strategy for Disaster Reduction of the United Nations (UN-ISDR) is organizing the Third Session of the Global Platform for Disaster Reduction. This event will take place in the International Conference Centre Geneva (CICG) from 8 to 13 May of this year. In order to support UN-ISDR in the achievement of the goals established in the Hyogo Framework for Action, UN-SPIDER established the SPIDER Global Thematic Partnership as an inter-institutional mechanism to assist National Platforms for Disaster Reduction in making use of space-based information to tackle the challenges of disaster-risk management. During this session of the Global Platform, UN-SPIDER, DLR, ADRC, ISPRS, and ESRI are organizing a Side Event entitled: "Integrated Use of Space Technologies for Disaster-Risk Reduction". This event will take place in Geneva, Switzerland, on May12, 13:30-14:30 in Room 5 of the CICG.

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You may find more information of the SPIDER Global Thematic Partnership in UN-SPIDER's Knowledge Portal: <http://www.un-spider.org/CoP/Global-Thematic-Partnership>.

### Establishment of a UNGIWG Task Group on Geospatial Information for Humanitarian and Emergency Response (GIHER)

Source: UN-SPIDER March 2011 Updates

During the 11th Plenary Meeting of the United Nations Geographic Information Working Group (UNGIWG) hosted in Geneva by the World Meteorological Organization (WMO) from 14 to 16 March 2011, at the suggestion of UNOOSA an ad hoc Task Group focusing on Geospatial Information for Humanitarian and Emergency Response was established. This ad hoc Task Group will be led by UNOOSA and the World Food Programme (WFP) and will be open to all UNGIWG members and partners. Anyone interested in contributing to the work of this Task Group should contact David Stevens, Programme Coordinator of UN-SPIDER, [david.stevens@unoosa.org](mailto:david.stevens@unoosa.org)

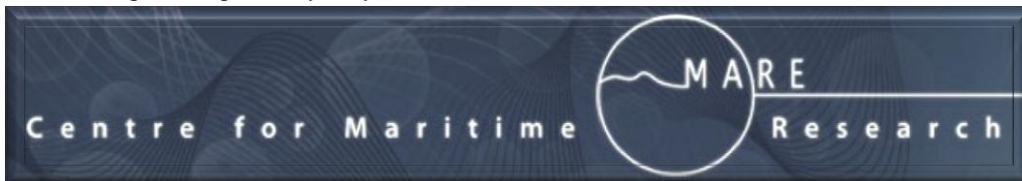
### Cloud Computing, Data Policy on Track to “Democratize” Satellite Mapping

Source: <http://www.newswise.com/> by way of WALIS 04 2011 eNews

Far-sighted data policy and cloud computing are leading to the “democratization of satellite mapping”, one expert says, and the payoff will be wider access to information about the earth via platforms such as the new Google Earth Engine, a planetary-scale platform for environmental data and analysis. That is the view of South Dakota State University professor Matt Hansen, one of several scientists who worked with Google to launch Google Earth Engine. The new technology was showcased at the annual meeting of the United Nations Framework Convention on Climate Change in Cancun, Mexico, in December 2010. Web link to full article: <http://www.newswise.com/articles/cloud-computing-data-policy-on-track-to-democratize-satellite-mapping>

### MARE Conference People and the Sea VI Bridging Science and Policy for Sustainable Coasts and Sea

Source: Roger Longhorn by way of SEA-GIS list



People and the Sea VI will take place on July 6-9, 2011 at a central location, close to the Amsterdam Zoo (The Netherlands) and within easy reach of public

transportation. The 'Roeterseilandcomplex' is one of the locations of the University of Amsterdam and it's also where the MARE office is located. The conference will be held in Amsterdam at Roeterstraat 11 (Building E) Plantage Muidersgracht 12 (Building M). Conference themes will be: 1) Maritime life worlds and culture; 2) Negotiating policies for marine resource use; 3) Coastal shocks, disasters and recovery; 4) Contrasting approaches and tools: Successes and failures in marine and coastal resource management; and 5) Fisher wellbeing and sustainable fisheries: Challenges and opportunities. See [www.marecentre.nl](http://www.marecentre.nl) for more information. Conference web site: [http://www.marecentre.nl/people\\_and\\_the\\_sea\\_6/index.html](http://www.marecentre.nl/people_and_the_sea_6/index.html)

### Technically Building up Open Source, Open Standards, Open Data research - OSGIS 2011

Source: Suchith Anand by way of Santiago Borrero

Registrations are now open for the Third Open Source GIS Conference at [http://cgs.nottingham.ac.uk/~osgis11/os\\_home.html](http://cgs.nottingham.ac.uk/~osgis11/os_home.html). The OSGIS conference series has a strong international focus and takes a holistic approach in bringing together speakers and delegates from government, academe, industry and open source communities. High profile speakers from all over the world are invited for giving presentations and running hands-on workshops for the conference series. The key aims of OSGIS conference series are:

1. To hear presentations from government, academic, industry and policy makers on open source, open standards and open data geospatial technologies
2. To provide platform to network and develop ideas for future collaborative work in open source GIS
3. To understand current developments in open source GIS



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4. To act as a focus for open source, open standards, open data GIS research

### OSGIS 2011 workshops:

- Open Data Revolution Workshop (Horizon Digital Economy Research Institute, University of Nottingham and Creative Commons)
- Mapserver Workshop (Astun Technology, UK)
- One Geology Workshop (British Geological Survey)
- Geoserver Workshop (GeoSolutions, Italy)
- WMS/QGIS Workshop (Faunalia, UK)

OGC-OSGeo Interoperability Day will be held on 21 June 2011 (Organised by Tyler Mitchell, Executive Director, Open Source Geospatial Foundation). gvSIG Day (Organised by gvSIG Association, Spain) will be held on 22 June 2011

### ISO/TC 211 Meetings

Source: <http://www.nen.nl/>



The last week of May 2011 (23 to 27), Delft (The Netherlands) is the host for the ISO/TC 211 Working Groups, Project Teams and 32nd Plenary Meeting. The Workshop on International Geo-standards: 'ISO/TC 211 Standards in Action' will take place on May 25 at the University of Delft, including a variety of Dutch and international speakers, a “meet and greet” with experts, and online geo wiki sessions. Topics include: national geographic information, observations and measurements; ESDIN – Test framework for Inspire services and data; 3D pilot and the use of City GML and Land Administration Domain Model. The Workshop is

open to all the experts and delegates attending these meeting. However, the organizing committee also invites all other interested, who may not be familiar to geo-standards, but do have affinity with geographic information. For further information on the workshop please contact Annet van der Horn, [annet.vanderhorn@nen.nl](mailto:annet.vanderhorn@nen.nl). More information at the meeting website: <http://www.nen.nl/web/ISOTC-211-meetings.htm>

### 26th Session of the United Nations Group of Experts on Geographical Names

Source: <http://unstats.un.org/unsd/geoinfo/UNGEEN/>

The Twenty-sixth Session of the United Nations Group of Experts on Geographical Names (UNGEEN) will be held in Vienna, Austria, 2-6 May 2011. Documents and side events have been posted [online](#).



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## IGS News, Links, Publications

### **Summer School “Advanced Spatial Data Infrastructures”**

Source: Joep Crompvoets by way of Mabel Alvarez

This event will take at the Irish College in Leuven, Belgium between 8 and 15 July 2011, and is organized by the University of Melbourne (Australia), Leuven University and Brussels University (both Belgium), and supported by Global Spatial Data Infrastructure (GSDI) Association. The key objective of this

Summer School is to enhance the knowledge about the current developments in the field of spatial data infrastructures. For more background information and registration, see <http://www.spatialist.be/201101-school/index.ht>



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### National SDI, News, Links, Presentations

#### [NATIONAL SPATIAL DATA INFRASTRUCTURE OF BRAZIL \(NSDI\)](#)

##### [CINDE's Wiki - National Spatial Data Infrastructure Committee, Brazil](#)

Fuente: <http://wiki.cinde.ibge.gov.br/>

With the launch of the National Spatial Data Infrastructure (NSDI) of Brazil (04/08/2010) its deployment phase began. This space provides organizations and collaborators of CINDE with a way to contribute cooperatively with the Working Groups (WG) pointed out in the NSDI's Plan of Action. In order to provide a collaborative environment to achieve the Committees' work, the following pages were created, where you may find information related to each of the WG: Agenda, Qualification and Training, Data and Metadata, Dissemination and Communication, Management, Norms and Standards; Participants; and Technology. CINDE's objective is to develop actions and activities necessary for implementing the NSDI, as with the proposed action lines emanating from the Plan of Action (adopted at the 14th Session of the National Cartographic Commission (CONCAR) of 27/05/2009.

##### CINDE Guidelines:

- The structuring of the Committee into Working Groups, as indicated in the Action Plan, considers the following themes: Management, Standards and Specifications, Data and Metadata, Technology, Training and Capacity Building, and Dissemination and Communication
- Creation and monitoring of a WIKI environment for the CINDE's WG studies, actions and development activities
- To subsidize the development of covenants, cooperation agreements, and geospatial data sharing
- To specify Terms for Geospatial Information Access and Use, defining the basic safety standards for its access, use, distribution, and traffic (holistic approach: people and Information Technology) adhering to INDE
- Subsidizing and supporting the WG development and tasks, particularly their physical and financial management to accomplish timelines
- To monitor and coordinate the development of the WG activities, by systematically coordinating pertinent meetings
- To perform duties for the integration of the various WG, also providing them with management, monitoring and project control tools
- To support WG on their demands for formalization of actions to be implemented at organizations of various governmental levels, such as surveys and inventories, catalogs, requests for meetings' space, and technical support, among others
- Establishing mechanisms for evaluating the NSDI Plan of Action implementation procedures
- To provide analysis and re-drafting for the NSDI Strategic Plan of Action, identifying mechanisms and tools for its deployment evaluation
- To develop the Action Plan's Cycles II and III

During April 2011 the 7th Meeting of the Training and Capacity Building WG, and a Meeting of the Dissemination and Communication WG took place.

#### [NATIONAL SPATIAL DATA INFRASTRUCTURE OF JAMAICA \(NSDI\)](#)

##### [Land Information Council of Jamaica and Andean Development Bank host GeoSUR Seminar](#)

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

The welcome and opening remarks done by Mrs. Colette Roberts Ridsen, the Chief Technical Director of the Planning and Development Division in the Office of the Prime Minister was well received by a captive audience. Mrs. Ridsen gave an anecdote on how GIS was a budding technology two decades ago, during the time of her studies and how it is coincidental that she is now shaping the growth of the technology some twenty years after. The Senior Director and National GIS Coordinator, Ms. Cecille Blake, then gave a chronological account of GIS over



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the past years and discussed Spatial Data Infrastructure (SDI), its evolution and the related programs. This presentation also placed emphasis on metadata management, gFIX.net which is Jamaica's high accuracy continuously operating real time virtual reference station network based on global navigation satellite system. The other significant issue addressed in this presentation was Web Map Services (WMS). She highlighted a number of geospatial data discovery applications administered via the web being undertaken by the government entities. The guest speaker and sponsor of the seminar, the Regional Coordinator for GeoSUR, Eng. Eric van Praag, gave a comprehensive presentation on how various countries, organizations, and companies within the region utilize the GeoSUR portal to conduct various hydrographic, topographic, land administration, transportation and many other type of analyses. Hence GeoSUR directly increases the capacity of many government agencies to carry out spatial analyses and modeling to aid proper planning. He discussed both the technical, financial and administrative support mechanisms behind the portal and the implications this gateway has for the region, with regards to forecasting, sustainable planning and disaster management. An integral part of his presentation entailed demos of how each analysis is conducted. Eng. van Praag ended his presentation with a call of action for the various personnel to become members of the GeoSUR program.

### [MEXICO, NATIONAL STATISTICAL AN GEOGRAPHIC INFORMATION SYSTEM \(in Spanish SNIEG\)](#)

#### [2010 Activities and Results Annual Report](#)

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

In compliance with Article 86 of the Law of National Statistical and Geographic Information (16 March, 2011), the Board of Governors of National Institute of Statistics and Geography (in Spanish INEGI) approved the 2010 Activities and Results Annual Report, which was issued on March 25 to the Federal Executive and the Congress. The report contains three chapters: the first presents the results of implementing the Annual Programme of Statistical and Geographic Information derived from the activities undertaken during 2010 by the State units and INEGI -as the System's Coordinator Central Unit; the second, gives an account of activities undertaken by the Executive Committees, and the Specialized Technical Committees of the National Information Subsystems; and the third chapter reports on the 2010 activities and budget. See the 2010 Report [here](#).



### **SPATIAL DATA INFRASTRUCTURE OF PANAMA (in Spanish IPDE) – UNDER CONSTRUCTION**



#### [New portal of Panama's National Geographic Institute "Tommy Guardia"](#)

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

The National Geographic Institute of Panama "Tommy Guardia" (in Spanish IGNTG) launched a new portal. Among its new sections is worth highlighting that on "Conventions and Agreements". Inside this, is relevant the Technical-scientific and Academic Assistance and Cooperation Agreement between the IGNTG and the Technological University of Panama (in Spanish UTP), for the development and networking of the Spatial Data Infrastructure, and the Establishment of a UTP Geographic Information Technology Laboratory to support the IGNTG, among other objectives. In order to accomplishing the above, both parties will establish a commission for coordinating and implementing the planned activities. The new portal may be accessed at: <http://ignpanama.anati.gob.pa/>



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### [SPATIAL DATA INFRASTRUCTURE OF THE REPUBLIC OF URUGUAY \(in Spanish IDEUy\)](#)



#### **Government of Uruguay and gvSIG Association Collaborate on “One Laptop per Child” Program for Primary and Secondary Education**

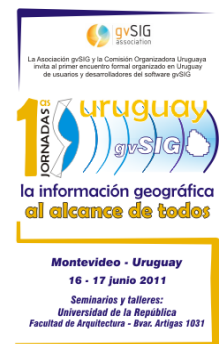
Source: Sergio Acosta y Lara

On April 4, 2011 it was signed in Montevideo an agreement between the gvSIG Association, Ceibal Center, and the Ministry of Transport and Public Works of the Republic of Uruguay, in order to develop a tool for teaching Geographic Information related disciplines at public schools and colleges across the country. This agreement is directly related to the progresses made in recent years in Uruguay in the area of computer literacy, as applied to primary and secondary education, through the program “One Laptop Per Child” (OLPC) implemented by the Uruguayan government. The agreement aims to develop an educational gvSIG-based on gvSIG Desktop-, which allows primary and secondary school students to understand the territory, easily interpret maps, and learning through playing and open technologies. This initiative is a commitment to innovation, and to the development of applications not existing in the international context that may become an international benchmark for using information technology in education. This initiative's development will be coordinated between the gvSIG Association, a local company, the Ministry of Transport and Public Works, and the Ceibal Center for Supporting the Children and Adolescents Education. Pertinent activities have already begun. It is still required to establish a working team for developing the project in partnership with the gvSIG Association, and in coordination with the National Bureau of Surveying of the Ministry of Transportation and Public Works (in Spanish MTOP) and the Ceibal Centre. The expected project duration is 6 months (2 for development and 4 for training). The resulting product is aligned with the provisions of the Working Group on Spatial Data Infrastructure (in Spanish GTIDE) of the e-Government and Information Society Agency (in Spanish AGESIC) (of which the National Bureau of Surveying is a leading actor), as for linking the development of the Uruguay Spatial Data Infrastructure (SDI) with the Ceibal Plan. The SDI is committed to empowering the citizenry from early stages in the use of spatial information by promoting the right of every citizen to access public information. The choice of free software not only significantly lowers the total project cost but allows real, more efficiently, and collaboratively knowledge transfer.

#### **1st Uruguay gvSIG Working Days: Geographic Information for Everyone**

Source: Sergio Acosta y Lara

The First Uruguay gvSIG Working Days under the theme "Geographic Information for Everyone" will be held on June 16-17, 2011 at the Faculty of Architecture of the University of the Republic (in Spanish UdelaR) in Montevideo, Uruguay. In Uruguay, the gvSIG users' community was established and had been growing. Therefore, it was decided to organize the gvSIG Working Days in Uruguay, since there is a great development potential. Simultaneously, the country is embarked on a process of harmonization, dissemination and democratization of spatial public information as part of developing the Spatial Data Infrastructure of Uruguay (in Spanish IDE-UY), which requires giving free tools to society to handling such information. These 1st. Days will be an opportunity for disseminating and exchanging experiences and information between users and developers, and among those interested on Geographic Information System related topics, Spatial Data Infrastructure, and free geomatics in general. It will both allow showcasing the current gvSIG project state of development and future plans, and gvSIG-based applications and solutions carried out in the country. Participation in this event is opened, so that anyone interested on making a communication may send a proposal for its evaluation by the Scientific Committee. Those interested in participating in the Working Days may do so through oral presentations on June 16. Please send an abstract of your paper via email to [jornadas.uruguay@gvsig.org](mailto:jornadas.uruguay@gvsig.org). Rules for submitting abstracts and final papers may be found at: <http://www.gvsig.org/web/community/events/jornadas-uruguay/2011/Comunicaciones>. Abstracts are due by **May 16, 2011** and shall explain briefly and clearly the objectives of the presentation. Information on accepted works will be on May 25, 2011. Deadline for final submission of full papers is June 1, 2011. Full papers should clearly state objectives, methodology, and conclusions. More information may be found on the event's website at: <http://www.gvsig.org/web/community/events/jornadas-uruguay/2011>. Contact: [jornadas.uruguay@gvsig.org](mailto:jornadas.uruguay@gvsig.org)



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# Global Spatial Data Infrastructure

## Latin America and the Caribbean Newsletter

### Articles and Publications of the Month

#### **[FOSSGIS Brazil Journal – First Edición, March 2011](#)**

Source: <http://fossGISbrasil.com.br/>

Quarterly Publication trimestral (Year 1 – No. 01, March 2011), the Journal is freely distributed. To get your copy just download it from <http://fossGISbrasil.com.br/download/>. You may collaborate with this project in several ways. One of main ways is by submitting an article related to the focus of the journal following instructions on the page for submission of articles. Another important contribution is through posting comments on the site. Please contact by email ([revista@fossGISbrasil.com.br](mailto:revista@fossGISbrasil.com.br)) to making comments or for information about becoming a partner to FOSSGIS Brazil project. Two main articles may be highlighted among the interesting topics of this first issue: “La historia de FOSSGIS” (FOSSGIS History) by Carlos Madeira, that seeks “... to frame, or if you prefer, to present the state of the art in relation to FOSSGIS. The text presented here deals with this topic in general, since almost all editions, and several issues will deal with FOSSGIS philosophy”; and “Redescubriendo los SIG con software libre” (Rediscovering GIS with free software) by Esdras Andrade Lima, which conclusions hold that “FOSSGIS have evolved rapidly in recent years, such that at a medium-term scale they may be on par with some proprietary software, not only in terms of features and usability, but also of the number of users.”



#### **Editor Choice Papers - *International Journal of Digital Earth***

Source: Editorial Office, *International Journal of Digital Earth*

The *International Journal of Digital Earth* (IJDE) has been indexed by SCI-E in 2009 and initially received an impact factor of 0.864 for the year of 2009. Ten papers were selected for free download in 2011. You are strongly encouraged to download and cite them in your research papers. Please click the links of each paper below to access.

[Digital Earth: decadal experiences and some thoughts](#)

H. D. Guo; Z. Liu; L. W. Zhu. Volume 3, Issue 1, 2010

[Crowdsourcing geographic information for disaster response: a research frontier](#)

Michael F. Goodchild; J. Alan Glennon. Pages 231–241, Volume 3, Issue 3, 2010

[Digital Earth's Nervous System for crisis events: real-time Sensor Web Enablement of Volunteered Geographic Information](#)

Bertrand De Longueville; Alessandro Annoni; Sven Schade; Nicole Ostlaender; Ceri Whitmore. Pages 242–259, Volume 3, Issue 3, 2010

[The application of open standards to enhance the interoperability of geoscience information](#)

G. Percivall. Pages 14 – 30 Volume 3, Supplement 1, 2010

[Selected issues of cartographic communication optimization for emergency centers](#)

Karel Staněk; Lucie Friedmannová; Petr Kubíček; Milan Konečný. Pages 316–339, Volume 3, Issue 4, 2010

[The contribution of maps to the challenges of risk communication to the public](#)

Doris Dransch; Henry Rotzoll; Kathrin Poser. Pages 292–311, Volume 3, Issue 3, 2010

[The Sensor Web: systems of sensor systems](#)

T. L. van Zyl; I. Simonis; G. McFerren. Pages 16–30, Volume 2, Issue 1, 2009

[Metadata requirements analysis for the emerging Sensor Web](#)

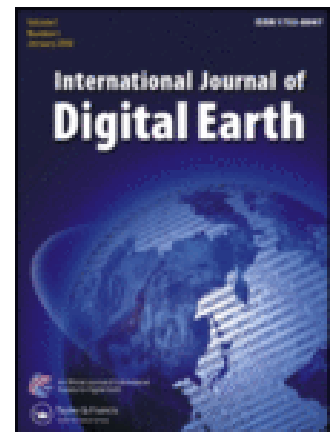
Liping Di; Karen L. Moe; Genong (Eugene) Yu. Pages 3–17, Volume 2, Supplement 1, 2009

[Identifying damage caused by the 2008 Wenchuan earthquake from VHR remote sensing data](#)

D. Ehrlich; H. D. Guo; K. Molch; J. W. Ma; M. Pesaresi. Pages 309–326, Volume 2, Issue 4, 2009

[A new global raster water mask at 250 m resolution](#)

M. L. Carroll; J. R. Townshend; C. M. DiMiceli; P. Noojipady; R. A. Sohlberg. Pages 291–308, Volume 2, Issue 4, 2009



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### Online Open Geospatial Encyclopedia, Brigham Young University

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

The Brigham Young University has created an online free text on geographic information science and technology, whose topics range from the Geospatial Community, the conceptual models of geographic phenomena, to raster data model, and GIS data sources, among others. More information on the following link: [http://geospatial.referata.com/wiki/Main\\_Page](http://geospatial.referata.com/wiki/Main_Page)

### Salvat B. and D. Allemand, Acidification and Coral Reefs. Scientific Review, CRISP Programme, Noumea, New Caledonia, 2009.

Source: Claire Dupré



Please note the link below to access the following CRISP Programme publication:

<http://www.crisponline.net/CRISPPRODUCTS/Stakeholdersandpublicawareness/tabid/316/Default.aspx>

Title: Acidification and coral reefs

Authors: Bernard Salvat, Denis Allemand

Date: October 2009

Nbr. of pages: 32

Component: 2A Knowledge, monitoring, management and development of reef ecosystems

Project: 2A5 Specific studies on atmospheric CO<sub>2</sub>

Comments: Trilingual document (English/French/Spanish)

Download: [Scientific review \(PDF File, 1.81 MB\)](#)

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## Geospatial Research, Applications, Software, Data

### [5th Cadastral Working Day Successfully held in Guarico, Venezuela](#)

Source: <http://www.igvsb.gov.ve/>

On April 2011 was held the Fifth major Cadastral Working Day in the Central Plains region, an event developed within the framework of the National Cadastre that is led by the Geographic Institute of Venezuela "Simón Bolívar" in partnership with the Federal Council Government. This time the event covered the states of Apure, Barinas and Guarico, where 20 municipalities will update their land registry. "Cadastre: a Tool for Planning and Development, was the title of this Working Day held in one of the most important Venezuelan states such as the territory of Guarico. The meeting helped both to articulate the importance of the people's power on planning and cadastral organizing, and for the promotion of municipal cadaster and establishing technical working groups focused on the states of Apure and Guarico. A total of 23 towns were selected for conducting 60,396 real estate inventories, aimed at planning optimization at the respective institutions, where the Directorates of Cadastre of the municipalities of Apure, Barinas, and Guaricowill work together with 134 people who will be trained for these activities.





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#### OGC announces netCDF Standard for Communicating Multidimensional Data

Source: OGC Press Release

The Open Geospatial Consortium (OGC®) membership has approved the OGC Network Common Data Form (netCDF) Core Encoding Standard, and netCDF Binary Encoding Extension Standard - netCDF Classic and 64-bit Offset Format as official OGC standards. These standards are available for free download at <http://www.opengeospatial.org/standards/netcdf>. Although it was originally developed for the Earth science community, netCDF can be used to communicate and store a wide variety of multidimensional data. The netCDF data model is particularly well suited to providing data in forms familiar to atmospheric and oceanic scientists, specifically, as sets of related arrays. netCDF is self-documenting, which means it can internally store information used to describe the data. For example, the internal documentation can associate various physical quantities (such as temperature, pressure, and humidity) with spatio-temporal locations (such as points at specific latitudes, longitudes, vertical levels, and times). Climate and Forecast (CF) Metadata Conventions are often used in conjunction with netCDF as a means of specifying semantic information that promotes the processing and sharing of climate and forecast data created with the netCDF Application Programming Interface (API). The semantic metadata is conveyed internally within the netCDF datasets. netCDF was developed and is supported by the Unidata Program Center at the University Corporation for Atmospheric Research (UCAR) (<http://www.ucar.edu/>) under sponsorship of the Atmospheric and Geoscience Division of the US Government National Science Foundation. It has been formally recognized by the US Government's National Aeronautics and Space Administration (NASA) and the National Oceanic and Atmospheric Administration (NOAA) standards bodies. UCAR and other OGC members introduced netCDF into the OGC as a candidate OGC standard to encourage broader international use and greater interoperability among clients and servers interchanging data in binary form. Among other benefits, this will make the large collections of environmental netCDF data more readily accessible and usable by non-experts. [For information contact: [info@opengeospatial.org](mailto:info@opengeospatial.org)]

#### New gvSIG 1.11 final version now available

Source: News Office gvSIG

gvSIG has issued a new final version of its desktop application: gvSIG Desktop 1.11. It is available in the Downloads section of the gvSIG website: <http://www.gvsig.org/web/projects/gvsig-desktop/official/gvsig-1.11/descargas>. The main new features of gvSIG 1.11 are:

- New features supported by Landeshauptstadt München, Referat für Gesundheit und Umwelt
- Copy/paste geometry between layers: <http://www.gvsig.org/web/projects/contrib/copy-paste-geometry>
- Lateral Buffer and Line splitting by equidistant segments: <http://www.gvsig.org/web/projects/contrib/lateral-buffer-and-split-line-geoprocess>
- Adding sequential numbers in tables of attributes: <http://www.gvsig.org/web/projects/contrib/add-consecutive-number-to-table>
- Finding duplicate records in attribute tables: <http://www.gvsig.org/web/projects/contrib/select-duplicated-rows-in-table>
- Plugin Installer (beta)
- New NavTable version: <http://www.gvsig.org/web/projects/contrib/navtable>
- User Manual included (available in the help menu)
- Bug fixes provided by the developer community: <http://www.gvsig.org/web/projects/gvsig-desktop/official/gvsig-1.11/notas-de-version/mejoras-realizadas>
- The improvements over the previous version, known issues, and other release notes may be found in: <http://www.gvsig.org/web/projects/gvsig-desktop/official/gvsig-1.11/notas-de-version>

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## Training and Funding Opportunities, Awards

#### Course on New Technologies for Improving Spatial Geoservices for Better Development Planning in Mesoamerica and the Caribbean: Professional Development Scholarships Programme

Source: <http://www.ipgh.org/>; <https://www.oas.org/>

The workshop on "New Technologies for Improving Spatial Geo services for Better Development Planning of Mesoamerica and the Caribbean" will take place from July 26 to August 4, 2011 at premises of the Center for Earth

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**GeoSUR** La Red Geoespacial de América Latina y el Caribe



Resources Observation and Science (EROS) of the U.S. Geological Survey, Sioux Falls, South Dakota, USA ([Registration Form](#)). Within the course objectives are to acquire skills necessary to deploy Web Mapping Services in Mesoamerica and the Caribbean institutions, and to plan the integration of institutions of the region to the Geographic Information Network of South America ([www.geosur.info](http://www.geosur.info)). For detailed information on the Organization of American States criteria for granting scholarships, important dates, course content and application requirements, please log on [here](#).

### gvSIG Training Platform Launched with First gvSIG Users Course

Source: gvSIG News Office



The gvSIG Association aims to increase its educational offerings through online courses, launching a new training platform: gvSIG Training. In parallel it launches official certification programs of the gvSIG Association. This is a step forward in the free geomatics training process based on creating an online training center, which in turn contributes both to the dissemination and sustainability of gvSIG. Training without geographical barriers and through best professionals. On this platform you will find, in many different languages, courses aimed at in-depth learning the different gvSIG project applications, both for the user and developer levels. The list of courses will be completed gradually over several gvSIG specializations and free geomatics courses (e.g. databases, map servers, among others), in order to meet the diverse community needs. The offered gvSIG Training courses are part of the syllabi required to obtain official certifications. gvSIG Training opens with a gvSIG Desktop course which will began on **May 2**. For more information please log on to: gvSIG Training: <http://gvSIG-training.com/> or gvSIG Certifications: <http://www.gvsig.com/servicios/certificacion/certificacion>

### Geomatics & Cartography - New Post Graduate Taught Degrees, University of Glasgow

Source: Mike Shand

A number of new post-graduate taught Masters/Diploma courses are now available for 2011-12 from the School of Geographical and Earth Sciences, University of Glasgow, Scotland, U.K. (<http://www.gla.ac.uk/schools/ges/postgraduate/>). Those courses which may be of particular interest to those involved in Geomatics and Cartography include two new courses, one in [Applied Population and Statistical Mapping](#) and another in [Landscape Monitoring and Mapping](#). In addition, the existing established

courses in [Geoinformation Technology and Cartography](#) and [Geospatial and Mapping Sciences](#) will also run in 2011 at Masters, Diploma and Certificate levels. A number of others post-graduate taught courses are proposed and currently subject to approval including one on [Geomatics and Management](#).

[Applied Population and Statistical Mapping](#). Many organisations use census and statistical data, but often staff lack specialist training in mapping aspects of the census and in statistical mapping. This unique programme combines the study of statistical analysis of population data with the use of Geographic Information Systems (GIS) for mapping it, covering pre-census planning, census operations and the design of statistical maps. Entry - normally an Honours degree in a relevant field, such as geography, statistics, or social sciences. Those employed by appropriate agencies with practical experience, but with lower qualifications will be considered on an individual basis.

[Landscape Monitoring and Mapping](#). This programme will give you knowledge and experience of the technical methods of land surveying and geospatial information handling to capture and process data to monitor change in the physical landscape. It is intended for those seeking careers in environmental monitoring or management, or planning research in this area. Entry - normally an Honours degree in a relevant field, such as geography, civil engineering or Earth/environmental sciences. Those employed by appropriate agencies with practical experience, but with lower

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qualifications, will be considered on an individual basis. Please check the above links for further information on course content, entry requirements and how to apply. For information on scholarships please visit the following link <http://www.gla.ac.uk/postgraduate/howtoapplyforataughtdegree/>.

### [Online Training Kit on Participatory Spatial Information Management and Communication](#)

Source: <http://pgis-tk-en.cta.int/>

## **T** Training Kit on Participatory Spatial Information Management and Communication



The Training Kit has been developed with the objective "to support the spread of 'good practice' in generating, managing, analyzing and communicating community spatial information". Widespread use of the Training Kit, available online and on DVD, is expected to ensure that indigenous and marginalized communities participate in documenting, representing and communicating their spatial knowledge and land-related issues, while taking control over the processes involved. This would: (1) add value and authority to local knowledge, (2) facilitate intergenerational knowledge exchange, (3) build and support cohesive community identities and (4) support sustainable planning through collaborative decision making. Beyond the project rationale, Modules and Units have their own objectives which, for ease of understanding and measurement, are formulated as learning outcomes. This product has been developed by adopting and adapting the Itrain Online "Multimedia Training Kit (MMTK)" approach.

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## Employment Opportunities

### **Job Offer in Texas: Coastal and Marine GIS Analyst**

Source: Dawn Wright by way of SEA-GIS list

This is a temporary job position with The Nature Conservancy; the position will be based in Corpus Christi, Texas. The Coastal and Marine Geographic Information Systems (GIS) Analyst is a short-term, full time hire to support spatial analysis needs for The Nature Conservancy's Texas Chapter. GIS skills in spatial analysis, cartography, and data management as applied to marine planning and associated conservation strategies are essential. The Coastal and Marine GIS Analyst gathers, creates, updates, manages and develops conservation databases and provides technical support in GIS or other relational database technologies to the Coastal and Marine Program Associate Director and staff to meet coastal and marine spatial planning, analysis and synthesis goals. To view this Job Opening, visit: <http://careers.nature.org>. Posting Title: Coastal and Marine GIS Analyst. Job Opening ID: 13144. Contact Information: Jorge Brenner, Ph.D. Associate Director of Marine Science, The Nature Conservancy of Texas, [jbrenner@tnc.org](mailto:jbrenner@tnc.org)

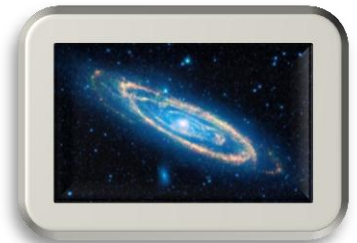
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## Other

### **NASA Reveals the Greatest Show off Earth**

Source: Arturo Brun-Martinez

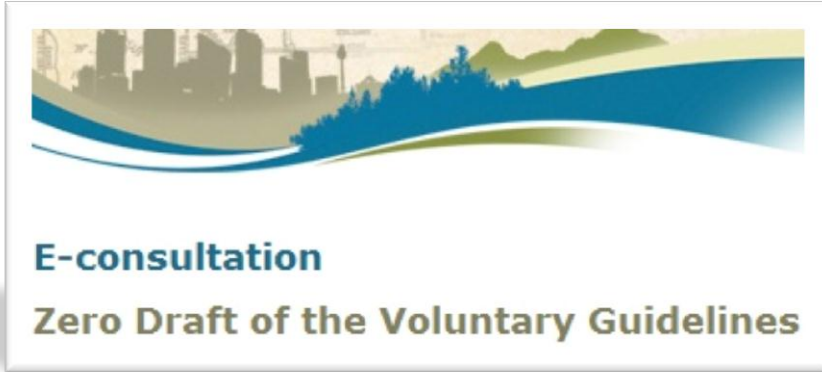
NASA has released a trove of data from its sky-mapping mission, allowing scientists and anyone with access to the Internet to peruse millions of galaxies, stars, asteroids and other hard-to-see objects. Many of the targets in the celestial catalog released online in April have been previously observed, but there are significant new discoveries. The mission's finds include more than 33,000 new asteroids floating between Mars and Jupiter and 20 comets. Web link to full article: <http://www.stuff.co.nz/science/4900188/NASA-reveals-the-greatest-show-off-earth>



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### e-Consultation on the Zero Draft of the FAO Voluntary Guidelines on Responsible Governance of Tenure of Land and Other Natural Resources



Source: FIG e-Newsletter, April 2011

An e-consultation on the zero draft of the Food and Agriculture Organization of the United Nations FAO Voluntary Guidelines on Responsible Governance of Tenure of Land and other Natural Resources will take place from 18 April to 16 May 2011. The e-consultation website and the zero draft will be available in Arabic, Chinese, English, French, Russian and Spanish. Comments may be submitted in any of those languages and will be hosted on the Voluntary Guidelines website at (<http://www.fao.org/nr/tenure/voluntary-guidelines/e-consultation/en/>). The aim of the

consultation is to gather comments on the zero draft of the Voluntary Guidelines and to allow interested parties who were not able to attend the regional consultations held over the year to contribute in the drafting of the Voluntary Guidelines. Comments from this e-consultation will be considered in the first draft of the Voluntary Guidelines which will be submitted in June to the open-ended working group of the Committee on World Food Security (CFS) for review. The work will peak in the CFS led plenary negotiations from 25-28 July 2011. Final text of the Voluntary Guidelines will be submitted for the consideration of the 37th session of the CFS in October 2011. As part of the International Federation of Surveyors FIG/FAO co-operation agreement FIG is circulating this information to FIG members to allow them to comment this key document of FAO.

### The Coral Reef Alliance (CORAL) recently published its 2010 Annual Report.

Source: Kate Trevelyan-Hall



The report, as well as past reports, can be downloaded from the website, at: [http://www.coral.org/who\\_we\\_are/about\\_the\\_organization/annual\\_report](http://www.coral.org/who_we_are/about_the_organization/annual_report)

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## Americas: Conferences, SDI Events

### [Latin American Geospatial Forum](http://www.lagf.org/)

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



The forum will take place on August 17-19, 2011 in Rio de Janeiro, Brazil. Theme: Bringing Global Perspectives to Local Action. The Latin American Geospatial Forum is the 1st Annual Latin American Conference and Exhibition on Geospatial Information, Technology and Applications. A joint initiative of GIS Development, CP IDEA (Permanent Committee for Geospatial Data

Infrastructure of the Americas) and CRECTEALC (Regional Centre for Education in Space Science and Technology for Latin America and the Caribbean), the conference would highlight the need for firmly placing "geospatial knowledge" at the heart of economic and development agenda of the nation. Latin American Geospatial Forum is an initiative that would provide a well-needed regional forum in Latin America for geospatial cooperation within Latin America and beyond the region. The conference, which will include plenary and keynote sessions, symposia, seminars, workshops, technical sessions, technology shows and a state-of-the-art exhibition, would bring all

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stakeholders in the geospatial domain: government, academia, researchers, students, and the industry - into one platform to come forward and share their learning and experiences with each other and rest of the world; and enter into meaningful dialogue towards development and strengthening of geospatial industry in Latin America.

### SIRGAS2011 Meeting

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



SIRGAS2011 Meeting will be held in conjunction with the third IAG-PAIGH-SIRGAS

School on Reference Systems, in the city of Heredia, Costa Rica, at headquarters of the School of Surveying, Mapping and Geodesy (in Spanish ETCG) on August 3-10, 2011.

### I Latin American Geography and Gender Seminar : Space, Gender and Power / Regional Conference of the International Geographical Union Pre- Meeting

Fuente: <http://www.gete.net.br/>



**I Seminário Latino-Americano de Geografia e Gênero: Espaço, Gênero e Poder**

Pré-encontro da Conferência Regional da União Geográfica Internacional: Conectando diferenças através de fronteiras espaciais.

The seminar will take place on November 8-11, 2011 in Rio de Janeiro Brazil

(<http://www.gete.net.br/ocs/index.php/ugi/SGGUGI>).

This will be a Regional Conference of the International Geographical Union (IGU) Pre- Meeting: Connecting Difference Through Spatial Boundaries. Interested participants are invited to submit papers for the meeting in several issues like: Gender and social movements in urban and rural spaces, Gender, sexuality and School, Gender relations, politics and power in territory management, Gender, labor and power, Gender, race and religiosity, Sexuality, gender and queer Geography, Immigration and gender, Gender in geographical research: challenges and limits to international alliances in a globalized world. Deadline for submission of works is **July 1, 2011** (<http://www.gete.net.br/ocs/index.php/ugi/SGGUGI/schedConf/cfp>).

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## YEAR 2011

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### MAY 2011

1-4 <b>*NEW*</b>	New Orleans LA, USA	<a href="#">28th Annual National Flood Conference</a>
1-5	Milwaukee WI, USA	<a href="#">ASPRS 2011 Annual Conference "Ride on The Geospatial Revolution"</a>
2 <b>*NEW*</b>	Curitiba, Brazil	<a href="#">GEO Task AG-07-03 meeting on JECAM (side event of Brazil Symposium on Remote Sensing SBSR)</a>
2-4	Jacksonville FL, USA	<a href="#">2011 ESRI Southeast Regional User Group</a>
3-5 <b>*NEW*</b>	La Crosse WI, USA	<a href="#">2nd Annual Minnesota/Wisconsin GITA Spring Seminar</a>
May 3 – Jun 17 <b>*NEW*</b>	On line (by Internet)	<a href="#">Innovation of Cadastre Management</a>
9-11	Reno NV, USA	<a href="#">Nevada GIS Conference 2011</a>
9-11 <b>*NEW*</b>	Lynnwood WA, USA	<a href="#">2011 Washington GIS Conference - Mapping Washington's Future</a>
9-12 <b>*NEW*</b>	Banff Alberta, Canada	<a href="#">11th Annual Disaster Forum Conference</a>
9-12	San Diego CA, USA	<a href="#">2011 National Hydrologic Warning Council Training Conference</a>
9-13	Washington DC, USA	<a href="#">GEOINT Community Week</a>
10-11 <b>*NEW*</b>	Buenos Aires, Argentina	<a href="#">Aeroterra GIS, Oil and Gas Event</a>
10-13	Lakewood CO, USA	<a href="#">The National Map Users Conference and the Geospatial Information Science Workshop</a>
10-13 <b>*NEW*</b>	Chantilly VA, USA	<a href="#">2011 Army Geospatial and Imagery Conference (AGIC)</a>
10-14	Dallas TX, USA	<a href="#">GITA's 2011 Geospatial Solutions Conference</a>



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10-14 <b>*NEW*</b>	Denver CO, USA	<a href="#">The National Map Users Conference and USGS Geographic Information Science (GIS) Workshop</a>
11-13	Santiago de Cuba, Cuba	<a href="#">4th International Conference on Integrated Management of Coastal Zones</a>
11-13	Orlando FL, USA	<a href="#">2nd International Conference on Disaster Management and Human Health</a>
11-14	Paraty, Brazil	<a href="#">I Brazilian Symposium of Historical Cartography</a>
12-13 <b>*NEW*</b>	Brooklyn NY, USA	<a href="#">Geoweb Summit</a>
14-18	Victoria BC, Canada	<a href="#">International Marine Conservation Congress</a>
16-20	St Louis MO, USA	<a href="#">URISA Leadership Academy</a>
May 17 – Jul 1 <b>*NEW*</b>	On line (by Internet)	<a href="#">Use of GIS Technology on Cadastre</a>
19	Botucatu SP, Brazil	<a href="#">II Symposium on Geostatistics Applied to Agrarian Sciences</a>
19-20	Chicago IL, USA	<a href="#">MAPublisher Training</a>
18-20 <b>*NEW*</b>	Washington DC, USA	<a href="#">Oracle Spatial User Conference 2011</a>
19-24	Washington DC, USA	<a href="#">Second International Marine Conservation Congress - Making Marine Science Matter</a>
22 <b>*NEW*</b>	Palm Springs CA, USA	<a href="#">World Environmental and Water Resources Congress EWRI 2011</a>
22-25 <b>*NEW*</b>	Laredo TX, USA	<a href="#">3rd International Conference on Risk Analysis and Crisis Response - RACR 2011</a>
23-25	Washington DC, USA	<a href="#">COM.Geo 2011: 2nd International Conference and Exhibition on Computing for Geospatial Research and Application</a>
24-25	Grantville PA, USA	<a href="#">19th Annual Pennsylvania GIS Conference</a>
25-27	Toluca, Mexico	<a href="#">XIII Latin American Conference on Geographic Information Systems (CONFIBSIG) / E-mail: <a href="mailto:confibsigXIII@uaemex.mx">confibsigXIII@uaemex.mx</a></a>
May 28 – Jun.4	Puebla, Mexico	<a href="#">Impact Assessment and Responsible Development for Infrastructure, Business, and Industry (IAIA'11)</a>
May 30 – Jun 1 <b>*NEW*</b>	Edmonton Alberta, Canada	<a href="#">GeoAlberta 2011</a>
May 30 – Jun 3 <b>*NEW*</b>	Mexico City, Mexico	<a href="#">Third Meeting of the Ad hoc Technical Expert Group on Risk Assessment and Risk Management of Living Modified Organisms</a>

### JUNE 2011

1-3 <b>*NEW*</b>	Washington DC, USA	<a href="#">GTEC - Government Technology Expo + Conference 2011</a>
6-10	Orlando FL, USA	<a href="#">Hexagon 2011</a>
8-11	Las Vegas NV, USA	<a href="#">Insights 2011</a>
8-9 <b>*NEW*</b>	Novi MI, USA	<a href="#">Telematics Detroit 2011</a>
13-17	St Louis MO, USA	<a href="#">URISA Leadership Academy</a>
14-15	Washington DC, USA	<a href="#">Forum on Earth Observations V: Creating a National Strategy for Environmental Intelligence</a>
14-16	Sao Paulo SP, Brazil	<a href="#">MundoGEO#Connect</a> / Further information: <a href="http://mundogeoconnect.com/en">http://mundogeoconnect.com/en</a>
15-17	City of Panama, Panama	<a href="#">Second Meeting of the PAIGH Joint Technical Committees</a>
19-26	Chestertown MD, USA	<a href="#">Computer Mapping Technology Summer Camp</a>
Jun 20 – Jul 1 <b>*NEW*</b>	La Havana, Cuba	<a href="#">Diploma on Prevention, Mitigation and Management of Disasters at the Health Sector</a>
21-22 <b>*NEW*</b>	Chicago IL, USA	<a href="#">Ubiquitous Location and Positioning Technologies USA 2011</a>
Jun 26-Jul 1	Bolton Landing NY, USA	<a href="#">MAPPS Summer Conference</a>
27-30	Atlanta GA, USA	<a href="#">2011 URISA GIS in Public Health Conference</a> Contact: <a href="mailto:IMCCprogram@gmail.com">IMCCprogram@gmail.com</a>

### JULY 2011

4-8	La Havana, Cuba	<a href="#">VIII International Convention on Environment and Development</a>
4-8 <b>*NEW*</b>	La Havana, Cuba	<a href="#">III International Colloquium: Assessments of Hazard, Vulnerability and Risks for Disasters Reduction</a>
5-8 <b>*NEW*</b>	Quito, Ecuador	<a href="#">Latin America and Caribbean Regional Consultation and Capacity-Building Workshop on Reducing Emissions from Deforestation and Forest Degradation in Developing Countries, including on Relevant Biodiversity Safeguards</a>

# Global Spatial Data Infrastructure

## Latin America and the Caribbean Newsletter

7-12	San Diego CA, USA	<a href="#">The Survey Summit Arranged by ESRI and the American Congress on Surveying and Mapping (ACSM)</a>
9-12	San Diego CA, USA	<a href="#">2011 ESRI Homeland Security GIS Summit</a>
9-12	San Diego CA, USA	<a href="#">2011 ESRI International User Conference</a>
10-11	San Diego CA, USA	<a href="#">ESRI Business GIS Summit</a>
14-15	San Diego CA, USA	<a href="#">MAPublisher Training</a>
16-19	Big Bear Lake CA, USA	<a href="#">14th Annual Conference Society for Conservation GIS (SCGIS)</a>
19-21	Mexico City, Mexico	<a href="#">Indigenous Peoples, Marginalized Populations and Climate Change Workshop</a>
*NEW*		
19-22	Mayaguez, Puerto Rico	<a href="#">SAGES/FIG Workshop on Curriculum and Core Survey Knowledge</a>
19-22	Orlando, FL, USA	<a href="#">WMSCI 2011: 15th World Multi-Conference on Systemics, Cybernetics and Informatics</a>
*NEW*		
21-22	Rio de Janeiro, Brazil	<a href="#">Climate change conference 2011</a>
*NEW*		
27-29	SJ Campos SP, Brazil	2nd Sao Paulo Regional School of High Performance - ERAD 2011 More at: <a href="http://www.lev.ieav.cta.br/erad2011">www.lev.ieav.cta.br/erad2011</a>
Jul 30 – Aug. 6	Fayetteville State NC, USA	<a href="#">6th ISPRS Student Consortium and WG VI/5 Summer School</a> Advanced LIDAR Data Processing and Applications

### AUGUST 2011

3-10	Heredia, Costa Rica	<a href="#">SIRGAS Meeting 2011</a>
7-12	Rio de Janeiro, Brazil	<a href="#">International Conference on Atmospheric Electricity</a> More at: <a href="http://www.icae2011.net.br/">http://www.icae2011.net.br/</a>
10-12	Burnaby, Canada	<a href="#">WG IV/5 2nd International Workshop on Pervasive Web Mapping, Geoprocessing and Services, in conjunction with 4th ICA Workshop on Geospatial Analysis and Modeling (ICA GAM 2011)</a>
10-13	Cali, Colombia	<a href="#">XIX Colombian Congress of Geography</a> Contact: <a href="mailto:19CongresoGeografia@gmail.com">19CongresoGeografia@gmail.com</a>
15-17	La Havana, Cuba	<a href="#">Course on Prevention and Preparedness for Emergencies and Disasters at the Primary Level of Health</a>
*NEW*		
15-18	New Orleans LA, USA	<a href="#">URISA/NENA Addressing Conference</a> Abstract Submissions due April 4 <sup>th</sup> , 2011
17-19	Rio de Janeiro, Brazil	<a href="#">Latin American Geospatial Forum</a>
22	Chicago IL, USA	<a href="#">Call for Papers: CFP: The Second ACM SIGSPATIAL International Workshop on GeoStreaming (IWGS 2011)</a>
*NEW*		
24-26	Minneapolis, MN, USA	<a href="#">12th International Symposium on Spatial and Temporal Databases</a>
29-31	Calgary, Canada	<a href="#">WG V/3 Laser Scanning 2011</a>

### SEPTEMBER 2011

9-11	Denver CO, USA	<a href="#">State of the Map (SotM)</a>
11-14	Santa Fe NM, USA	<a href="#">WG VIII/2 Symposium on "Advances in Geospatial Technologies for Health"</a>
12-14	St. Petersburg FL, USA	<a href="#">GIS in Public Transportation Conference</a>
12-14	Washington DC, USA	<a href="#">Indoor Location Symposium</a>
*NEW*		
12-16	Denver CO, USA	<a href="#">FOSS4G 2011</a>
13-15	Herndon VA, USA	<a href="#">FOSE Institute Geospatial Summit</a>
15-16	Washington DC, USA	<a href="#">MAPublisher Training</a>
16	Belfast Maine, USA	<a href="#">Call for Papers: 10th International Conference on Spatial Information Theory COSIT'11</a> Deadline: <b>September 16<sup>th</sup>, 2011</b>
17-20	Daytona Beach FL, USA	<a href="#">5th Annual Central Florida GIS Workshop</a>
*NEW*		
17-27	Chantilly VA, USA	<a href="#">2011 GXP User Conference Discover. Learn. Advance</a>
19-23	Boulder CO, USA	<a href="#">OGC Technical and Planning Committee Meeting</a>
23	Boulder CO, USA	<a href="#">GEOSS Workshop XLIII – Climate</a>

### OCTOBER 2011

3-7	Morelia, Mexico	<a href="#">XIX National Meeting SELPER-Mexico</a> Contact: <a href="mailto:selper2011@ciga.unam.mx">selper2011@ciga.unam.mx</a>
12-13	Montreal, Canada	<a href="#">Geomatics 2011</a>
*NEW*		
16-20	San Antonio TX, USA	<a href="#">GEOINT 2011</a>
17-20	Ottawa, Ontario, Canada	<a href="#">GTEC - Ottawa - Canada's Government Technology Event</a>
*NEW*		



# Global Spatial Data Infrastructure

## Latin America and the Caribbean Newsletter

<b>24-28</b> <b>*NEW*</b>	Denver CO, USA	<a href="#">WCRP OSC Climate Research in Service to Society</a>
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### NOVEMBER 2011

1-4	Chicago IL, USA	<a href="#">ACM SIGSPATIAL GIS 2011</a>
1-4	Indianapolis IN, USA	<a href="#">GIS-Pro 2011: URISA's 49th Annual Conference for GIS Professionals</a>
3-4	Seattle WA, USA	<a href="#">MAPublisher Training</a>
7-12	Pará - Belém (PA), Brazil	<a href="#">V International Symposium on Agricultural Geography and VI National Symposium on Agricultural Geography</a>
8-11	Rio de Janeiro, Brazil	<a href="#">1<sup>st</sup> Latin American Seminar of Geography and Gender: Space, Gender and Power / Pre-meeting of UGI Regional Conference</a>
14-18	Santiago, Chile	<a href="#">UGI 2011 Regional Geographic Conference</a>
<b>Nov. 28 – Dec. 10</b> <b>*NEW*</b>	La Havana, Cuba	<a href="#">Course: Psychosocial Attention in Disasters</a>

### YEAR 2012

[Year 2012](#) January February March April [May](#) June [July](#) August September October November December

### MAY 2012

14-17	Quebec City, Canada	<a href="#">GSDI-13: Spatially Enabling Government, Industry and Citizens</a>
<b>TO BE DETERMINATED</b>	Rio de Janeiro, Brazil	<a href="#">UN Conference on Sustainable Development (commonly called Earth Summit 2012) or 'Rio+20'</a>

### JULY 2012

7-12	San Diego CA, USA	<a href="#">The Survey Summit</a>
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