

Spatial Data Infrastructure – Asia and the Pacific (SDI-AP) is a free electronic newsletter from the [Global Spatial Data Infrastructure Association \(GSDI\)](#) and is available in both English and Chinese language versions. The newsletter is produced for people interested in Spatial Data Infrastructure, GIS, remote sensing, and geospatial data issues in Asia and the Pacific. It aims to raise awareness and provide useful information to strengthen SDI initiatives and support the synchronisation of activities across the region. Support for the newsletter is also provided by the [Permanent Committee on Geographic Information for Asia and the Pacific \(PCGIAP\)](#), a regional forum to enhance cooperation in the development of a regional geographic information infrastructure. The newsletter is currently being produced for GSDI by the [Centre for Spatial Data Infrastructures and Land Administration](#) at the University of Melbourne.



To subscribe to SDI-AP use [this link](#). Back issues of the newsletter are at the [GSDI website](#). You can also sign up for [GSDI News List](#) to receive alerts of special news and announcements as well as notification of new issues of the SDI-AP newsletter. To subscribe to, and access archives of, thematic or regional discussion lists [please visit](#).

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## Message from the editor

Welcome to the February edition of the newsletter. This is the second issue for the year and the editors extend their best wishes to our subscribers for the Chinese New Year: the year of the Tiger.

On a more somber note we are saddened to learn of the major earthquake in January that made Haiti a major disaster area and wish our colleagues producing the Latin American & Caribbean newsletter well.

Please note that the GSDI organization is currently planning for the GSDI conference and are currently calling for Workshop and Tutorials - further information is available from [the GSDI website](#).

If you have news or information related to SDI, GIS, RS or spatial data that you would like to share with the community (e.g. workshop announcements, publications, reports, websites of interest etc.), [kindly send us the materials by the 25<sup>th</sup> of the each month](#) for your contribution to be included in the next newsletter.

Malcolm Park and Serryn Eagleson ([Editors](#)), at the [Centre for Spatial Data Infrastructures and Land Administration](#), The University of Melbourne.

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## Contributions

Thank you to the following people and organisations for their contributions to this issue:

Paul Box, Kate Lance, and Baek Wonkug for news feeds, Jeremy Shen & Jeremy Huang for the Chinese translation, and Shivani Lal, *GIS Development, Asia Surveying Mapping Magazine* for directly feeding into the newsletter.

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## SDI News, Links, Papers, Presentations

### [Asian governments eye gains from setting data free](#)

More of the huge reserves of information locked away in the basements of government buildings should be made available to the public. So say government modernisers in Hong Kong, South Korea and Australia following the news that the Mayor of London has sparked an “information revolution” in the British capital by putting data online for public consumption for the first time, free of charge.

Source: [FutureGov](#)

### [The Indian Geospatial Industry Report 2009](#)

Indian geospatial industry is at an exciting stage of its development. Geospatial technology is growing, new companies are emerging and established ones are expanding. It has been such a powerful and useful tool that many disciplines ranging from infrastructure projects to wildlife management to agriculture, all have found uses for it. The geospatial market in India was valued at Rs 8,389 million in 2008-09. The market can be broadly split into four broad categories – software, hardware, data sales and services.

Source: [Research and Markets](#)

### [Intergraph has launched a new SDI Application](#)

Intergraph® has introduced new spatial data infrastructure (SDI) application software to ensure harmonized geospatial data exchange within the enterprise and between government, businesses and the public for improved communication, collaboration, productivity, ease of maintenance and reduced costs.

Source: [Vector 1](#)

### [Mapping work flows](#)

In this article Katherine Sandford, General Manager, Utilities Field Solutions group, Trimble discusses the advantages and process of moving from paper-based workflows towards GIS-based enterprise management for developing sustainable infrastructure. A process which enables streamlined workflows, enhanced operational efficiency and effective utilisation of resources.

Source: [GeospatialToday](#)

### [Assessing capacity enhancement needs and database on possible assistance providers for 2010 round of population censuses](#)

The International Council on Management of Population Programmes (ICOMP), in a project funded by the Asia and Pacific Division, UNFPA, undertook the assignment to assess the capacity enhancement needs of 10 countries that are planning population censuses for 2010/2011. The 10 countries are Bangladesh, China, Indonesia, India, Malaysia, Mongolia, Nepal, Philippines, Sri Lanka and Thailand. Areas assessed are data processing; statistical communication and dissemination; civil registry and vital statistics; gender statistics; disability statistics; international migration; specific population; cooperation; advocacy; countries related; and census variables as benchmark for MDG indicators. Among the top 20 capacity enhancement needs identified 7 involved geospatial technologies for further information please follow this [link](#)

Source: Kate Lance

### [OGC needs users' input for next version of CityGML](#)

The Open Geospatial Consortium (OGC) is seeking broad input on enhancements and changes for a revision of the OGC City Geography Markup Language ([CityGML](#)) [Encoding Standard](#). CityGML is an open information

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model and XML-based encoding for the representation, storage, and exchange of virtual 3D city models. CityGML is implemented as an application schema of the OGC Geography Markup Language 3 ([GML3 Encoding Standard](#)), an international standard for spatial data exchange and encoding approved by the OGC and ISO.

Source: [GIS Development](#) & OGC Press Release

### [Digital Vulnerability Atlas of South Asia](#)

SAARC Disaster Management Centre has invited consulting firms for the development of Web GIS based Digital Vulnerability Atlas for four member countries of the SAARC, namely Afghanistan, Bhutan, Maldives and Nepal. The Atlas will cover four natural hazards of earthquake, cyclone, flood and landslide and different physical, social and economic vulnerabilities.

Source: [GIS Development \(January 4\)](#)

### [US NSDI Collection](#)

The Geodata Policy Blog has started a great list of links to articles, reports and editorials on the discussion around the building of National Spatial Data Infrastructure, with a focus on its governance and coordination, in the United States. The list includes National Geospatial Advisory Council Reports, 2009 Proposals for a "National GIS", Congressional Hearing Archives, Related Commentary, and related documents.

Source: [geodatapolicy.wordpress.com](#) & Wonkug Baek

### [Haiti Spatial Data Infrastructure \(Haiti SDI\) Contribution](#)

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

**Dateline: January 22:** volunteers from CubeWerx and The Carbon Project announced that free mapping data coordinated from OpenStreetMap (OSM), the United Nations and other sources have been presented in an open information network for the nation of Haiti. Much of the development of their freely-available software has been supported through FGDC Cooperative Agreements Program awards in prior years.

The Haiti Virtual Spatial Data Infrastructure (Haiti SDI) is a public set of Web Services and data that may be updated by anyone and used in Google Earth, OpenStreetMap, the Gaia SDI Platform and other applications to support relief and rebuilding. The link above is to their press release.

Please contact [jharrison@thecarbonproject.com](mailto:jharrison@thecarbonproject.com) for more information.

### [PSMA — Delivering Spatial Data Across Australia](#)

PMSA was formed by the Australian government with a goal to coordinate the delivery of spatial data across the three levels of government within the country. You can read the report '[LYNX: PSMA Australia's information infrastructure facilitating collaboration and delivering capability across the governments of Australia](#)' by Dan Paull.

Source: Vector 1

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## SDI Spotlight

**The editors are actively soliciting contributions to the monthly "SDI Spotlight" feature for the March and subsequent issues.**

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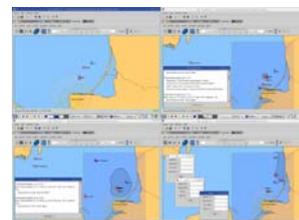
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## GIS Tools, Software, Data

### IntelligentGIS

Intelligent Geo-Information System (IGIS) is intended for studying complex spatial processes by simulation and modeling. Along with traditional GIS technologies it incorporates different artificial intelligence techniques for knowledge representation and processing. This project is aimed at research prototyping and based on the open source products; like, Protégé that is used here for knowledge representation, with the tab plug-ins [OpenMapTab](#) and [JBRSTab](#) those have been put in a public domain under the same license as Protégé and can be freely used by other projects.

Source: V1 Newsletter



### Microsoft Partner Appoints First Reseller in China

Graz, Austria - Imagemaps Pte. Ltd., Vexcel Imaging's sales representative responsible for the People's Republic of China, Taiwan, Australia, New Zealand and ASEAN, has appointed **Beijing Siwei Spatial Data Technology Co., Ltd** as its first reseller for Ultracam photogrammetric products in the Chinese market. Beijing Siwei is a subsidiary of the Chinese Academy of Surveying and Mapping under the State Bureau of Surveying and Mapping. Given the company's many major aerial and mapping projects for the Chinese government and relationships with major aerial survey companies in China, Imagemaps identified Beijing Siwei as an ideal partner for the Imagemaps territory.

Source: [Wireless Developer Network](#)

### GeoTools 2.6.1 Released

This release contains a host of improvements and bug fixes. In particular the JMapPane has received a lively round of testing and feedback, MySql is back among the supported data stores in its JDBC-NG implementation along with MS SQL Server and SpatialLite.

Source: [Planet OS Geo](#)

### Indonesia - Tsunami Early Warning System Progressing

Indonesia began setting up an early warning system in 2005, a year after a 9.2 Richter scale earthquake off Sumatra triggered a tsunami which left over 230,000 dead, 1.8 million displaced and 470,000 homes and buildings destroyed in 13 countries.

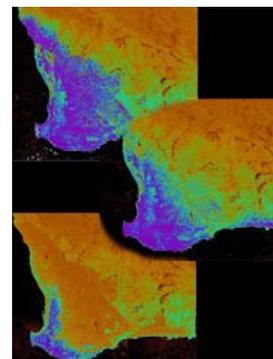
It collects data from seismometers, tide gauges, and GPS tracking units mounted on buoys to detect subtle changes in water pressure which could indicate an incoming tsunami, as well as ocean bottom satellite-linked sensors, allowing it theoretically to issue a tsunami warning at a regional level five minutes after an earthquake. Under the system, a tsunami warning will be issued for any undersea earthquake with a Richter scale magnitude of 7.0 or higher and a depth of less than 70km.

Source: Asian Surveying & Mapping

### Graphic proof of a fire-prone vulnerable WA (AUSTRALIA)

**SATELLITE images reveal that most of southern WA is like a tinderbox.**

The exclusive pictures coincide with warnings from fire chiefs that the state could expect another disaster such as Toodyay before April - with blistering temperatures forecast. As inspectors from the Office of Energy Safety arrived in Toodyay yesterday to begin their forensic analysis of the \$100 million fire that destroyed 38 homes, Emergency Services Minister Rob Johnson said there was a frightening amount of fuel left across WA because of heavy winter rains, which could spark deadly fires. These satellite images show for the first time how the increased winter rainfall led to a high level of green vegetation across southern WA in September. But by December that vegetation had dried up, leaving a tinderbox environment for much of the state.



The satellite composite images (right) illustrate the vegetation cover over the South-West of Western Australia for 2009. The top image was taken August 2-8, the second image October 14-28 and the third image December 23-30. Picture: **Satellite Remote Sensing Services, Landgate**

Source: Asian Surveying & Mapping

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**[Researchers Map Genetic Diversity in Asia](#)**

The Human Genome Organization's Pan-Asian SNP Consortium conducted research to determine the origin and ancestry of more than 70 Asian populations.

Source: [Asian Surveying & Mapping](#) & GenomeWeb Daily News

**[Nordpil offers free GIS database](#)**

Nordpil is sharing data, prepared for a project earlier in 2009. This database represents the historic, current and future estimates and projections with number of inhabitants for the world's largest urban areas from 1950-2050. The data is available as spreadsheet/table, maps, for Google Earth, in an animation video and for GIS data download. The data has been retrieved from the UN Population Division publication and web service World Urbanization Prospects, 2007 revision and georeferenced using a variety of sources.

A map of the data for the year 2005 has been published in the portfolio section, presenting the situation with cities with inhabitants more than 750 000. The map displays the population statistics as circles on a world map. The database is available for unrestricted download, under the Creative Commons 2.5 attribution license. This gives you the right to reuse and modify the data, as long as Nordpil and the UN Population Division are properly credited.

Source: Nordpil News & [GIS Development](#)

**[Philippines keen to develop geohazard maps within the year](#)**

The geohazard mapping and assessment programme, which is handled by the Mines bureau, involves the identification of areas susceptible to landslides, floods, coastal erosion and other ground instabilities. The 1:50,000 scale geohazard maps will be completed this year. As of end-December, the Mines bureau had mapped and assessed 89.6% or 1,451 out of the targeted 1,618 municipalities.

Source: Business World Online & [GIS Development](#)

**[AUSTRALIA: GPS tool to warn speeding drivers](#)**

DRIVERS who install a global positioning system in their cars will soon be able to see what the speed limit is on every road they travel, thanks to a \$2.3 million information project.

From the end of this month, speed limits will be listed for every road in the state on new or updated GPS units, thanks to the Transport Accident Commission.

The only other places to have introduced similar technology for drivers are London and Sweden, Roads Minister Tim Pallas said yesterday.

Source: the Melbourne Age (January 14)

**[Thematic Mapping blogger's](#)** holiday project, apart from skiing, was to play with the new **[Natural Earth dataset](#)**. This is a public domain map dataset available at three scales, 1:110m, 1:50m and 1:10m. By combing raster and vector data you can make a variety of visually pleasing maps. You can use his **[Natural Earth Browser](#)** to study the great linework of Natural Earth.

**[Centre set to undertake coastline mapping](#)**

Survey of entire coastline of India would be made to demarcate the volatile line along the coast to prevent loss of life and property during natural disasters besides to take measures to preserve and protect the coast

Source: Kalinga Times & [Asian Surveying & Mapping](#)

**[China launches third orbiter for indigenous global satellite navigation system](#)**

China took one step forward in its ambition to build an independent global navigation network capable of rivaling foreign congeneric systems with the successful launch of a new orbiter into space early Sunday morning.

Source: China News & [Asian Surveying & Mapping](#)

**[Collection of house tax spirals, courtesy satellite mapping](#)**

Satellite mapping of municipal areas using GIS has resulted in a major increase in the revenue of several Indian municipal corporations

Source: Express India & [Asian Surveying & Mapping](#)

### [Rare 1602 World Map, the First Map in Chinese to Show the Americas, on Display at Library of Congress, Jan. 12 to April 10](#)

A rare, 400-year-old map that displays China at the center of the world will be on exhibit at the Library of Congress from **Jan. 12 to April 10**, before it heads to its intended home at the James Ford Bell Library at the University of Minnesota.

Source: Library of Congress press release & [Ethiopian Review](#) & [Asian Surveying & Mapping](#)



### [Malaysian Razaksat Satellite Imagery](#)

The Razaaksat satellite was launched on 14 July by a SpaceX Falcon rocket from a US military base in the Marshall Islands. First images from the on board sensor were received on 20 July by Astronautic Technology SB, the prime contractor for the spacecraft.

Razaksat is an unusual remote sensing satellite because it is equatorial orbit. While this limits the amount of the Earth's surface it can cover, it maximises the chance that it will obtain images of the notoriously cloudy equatorial regions. It has a 90 minute revisit time over Kuala Lumpur, for example.

Source: [Asian Surveying & Mapping](#)

### [Network extension for gvSIG 1.9 available](#)

A stable network extension is now available for gvSIG 1.9. This extension adds a group of new features and improves the existing ones in previous versions.

The extension is available at the Extensions section of the [gvSIG website](#).

Source: [gvSIG](#)

#### **ALSO**

A new build of the 3D extension for gvSIG has been released, and it's [available](#). This build works on gvSIG 1.9 stable (build 1253), that is [available](#).

gvSIG 3D team encourages everyone to test this version. To keep improving the framework comments and suggestions can be sent to the [international list](#).

### [ArcGIS 10 release](#)

The ArcGIS 9.4 release was renamed ArcGIS 10 in January. The ESRI President, Jack Dangermond, explain why in a [podcast](#) [MP3]. ArcGIS 10 is a major release of all aspects of ArcGIS. More information on the upcoming release is available on ESRI's ["What's Coming in ArcGIS 10" page](#). The ArcGIS 10 beta release is now available. ArcGIS 10 is expected to be available in the second quarter of 2010.

Source: [ESRI.com](#)

### [ADPC completes Regional Multi-Hazard Early Warning System](#)

In accordance with the 2005 Phuket Declaration, the Asian Disaster Preparedness Center (ADPC) was requested by the Royal Thai Government and countries in the Indian Ocean region to assist in setting up a regional early warning system for tsunami and earthquake hazards, which would eventually be sustained by member countries. After 4 years of hard work, ADPC has now successfully completed this mission and the system is starting to provide much needed early warning and other hydro-meteorological forecasts to 26 countries in the region. As stipulated in the Declaration, ADPC is now ready to hand over the unit to the Regional Integrated Multi-hazard Early Warning System for Africa and Asia (RIMES). RIMES will assume responsibility of sustaining the system in a few months time (in early 2010). ADPC takes great pride in having overcome numerous challenges to setup this system and will continue to play an important role in assisting RIMES in delivering the critical services to the 26 countries in the region. To maintain the technical capabilities of RIMES, ADPC is therefore ready to release 6 of its staff currently attached to RIMES. With 105 staff and over 83 on-going projects at ADPC, ADPC continues to strive towards the goal of safer communities and sustainable development through disaster risk reduction in the Asia region.

See also: [Regional Integrated Multi-Hazard Early Warning System for Africa and Asia](#)

"RIMES total annual recurring cost: USD 2.5 million (for tsunami and all other hazards). This compares very favourably with the USD 48 million annual recurring costs by individual countries maintaining separate systems for tsunami alone." Member States are to meet partial costs of RIMES from July 2010 – June 2011 and fully meet all costs from July 2011 and beyond.

& [Regional Integrated Multi-Hazard Early Warning System \(RIMES\)](#)

& [Establishing a Regional Integrated Multi-Hazard Early Warning System for the Indian Ocean and Southeast Asia](#)

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## **Free Data Viewers**

There are free data viewers for a variety of GIS formats. These viewers allow us to display geographic data as well as perform some basic GIS functions. The free data viewers are as follows: [ArcExplorer](#) is a lighter version of ArcView offered by ESRI. [ArcReader](#) is a easy-to-use mapping application that allows users to view, explore, and print maps. [Christine GIS](#) is a GIS software allows users viewing and spatial querying vector and raster data, creating and editing tabular data. [GeoGenesis@LE](#) allows users to quickly view single or multi-band satellite and aerial imagery. [Geomatca Freeviewer](#) is a standalone dataviewer that allows browsing of a variety of vector and raster based data including satellite imagery. [Geospatial Explorer](#) was especially created for environmental scientists, geologists and engineers. [Natural Resources Database](#) is a GIS-based tool for developing and distributing environmental databases. [ShapeViewer](#) is what you can use to view ESRI Shapefiles. [TatukGIS](#) opens most GIS/CAD vector, raster image, and grid file types most ArcView, ArcExplorer, and MapInfo projects.

[TNTAtlas](#) is a Geodata viewing tool for Mac OS X and Windows.

Source: [GisLounge](#) & Wonkug Baek

## **USGS funding a student to develop Twitter Earthquake Detector**

The U.S. Geological Survey (USGS) is using funds from the American Recovery and Reinvestment Act to support a student who's investigating social Internet technologies as a way to quickly gather information about recent earthquakes. In this exploratory effort, the USGS is developing a system Twitter Earthquake Detector (TED) that gathers real-time, earthquake-related messages from the social networking site Twitter and applies place, time and key word filtering to gather geo-located accounts of shaking.

Source: [GIS News](#) & USGS

## **Pakistani NGOs to use GIS for saving turtle habitat**

Karachi-based non-governmental organisation Shehri-CBE (Citizens for a Better Environment) would conduct GIS mapping of Karachi's beaches as well as carry out a GIS-based analysis of the turtle habitat, in collaboration with the Indus for All Programme-WWF (World Wide Fund for Nature) Pakistan.

Source: [Pakistan Daily Times](#) & [GIS Development](#)

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## News from abroad

*"This section has been included to highlight some of the developments happening outside the region which demonstrate SDI in action."*

## **FEMA's flood maps put additional burden on house owners**

Tens of thousands of homeowners in Southern California are being forced to buy costly flood insurance because new maps issued by FEMA (Federal Emergency Management Agency) say that they live in a high-risk flood area. Premiums range from \$500 to more than \$1,700 a year.

Source: LA Times (January 4) & [GIS Development](#)

## **United Kingdom OS maps changes in Cumbria after the November's flooding**

Ordnance Survey (OS) has announced that its mapping can be relied on by surveying critical infrastructure changes to roads and bridges in Cumbria (North West of England) following November's flooding. Surveyors from Ordnance Survey have been in Workington, Cumbria, recently to start the task of mapping the changes after November's floods.

Source: UK Ordnance Survey & [GIS Development](#)

## **Protest against federal govt's stand on navigation system**

The federal government's decision to shut down the LORAN (Long Range Aid to Navigation) system used by fishermen and mariners in Maine is drawing protests from state officials and members of Maine's Congressional delegation. The decision was published in the Federal Register, according to the *Portland Press Herald*. The U.S. Coast Guard and the Department of Homeland Security said, "The 53-year-old navigation system is no longer needed because of the availability of the satellite-based GPS." According to the Herald report, the LORAN signals are scheduled to be turned off in early February.

[LORAN was developed during World War II. It uses radio signals beamed from land-based towers to help

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mariners determine their positions, while GPS uses satellite technology. State officials say while many fishermen have switched to GPS, some still use the LORAN system or a combination of both.]

Source: Maine Public Broadcasting & [GIS Development](#)

### [Africa: Satellite imagery helps in containing malaria transmission](#)

Satellite imaging is being used to locate potential mosquito breeding sites in southern Zambia, in a bid to reduce malaria transmission in the area. Researchers use the data, containing information such as soil moisture and water drainage patterns, to identify areas where the mosquitoes live and breed.

Source: [GIS Development](#) & AllAfrica.com

### [Russia Activates 1 of 3 New Glonass Navigation satellites](#)

One of three newly orbited satellites in Russia's Glonass space satellite navigation grouping has entered service, the federal space agency Roscosmos said on Tuesday. Glonass - the Global Navigation Satellite System - is the Russian equivalent of the U.S. Global Positioning System, or GPS, and is designed for both military and civilian use. Both systems allow users to determine their positions to within a few meters.

Source: RiaNovosti News & [Asian Surveying & Mapping](#)

### [US "Integrated Map"](#)

Last December, U.S. Maryland Governor Martin O'Malley signed an Executive Order entitled "One Maryland - One Map; Maryland Integrated Map (MD iMap)" ([PDF](#)) that establishes an organizational structure to guide and coordinate inter-agency and intergovernmental efforts to share geospatial data and tools in Maryland. The order identifies and defines the role of an Executive Committee, including the Secretaries of all the state's cabinet agencies, and formally identifies and defines the role of the State Geographic Information Officer (GIO) as well as that of the Technical Committee.

Source: Wonkug Baek

### [OGC and iEMSs to Cooperate on Standards for Environmental Modeling](#)

The Open Geospatial Consortium, Inc. (OGC) and the International Environmental Modeling & Software Society (iEMSs) Secretariat have signed a Memorandum of Understanding (MOU) to collaborate in standards development, education and outreach to enable and promote the use of interoperable Web based geospatial technologies in environmental modeling and software tools. The [iEMSs](#) is a not-for-profit organization uniting people and organizations dealing with environmental modeling, software and related topics. The [OGC](#)® is an international consortium of more than 380 companies, government agencies, research organizations, and universities participating in a consensus process to develop publicly available geospatial standards.

Source : the Open Geospatial Consortium press release

### [Haiti Earthquake Imagery – before & after](#)

- Google has [announced](#) that post-earthquake imagery is available to download as a KML file. The new imagery was taken at around 10:27am EST on January 13th, 2010 and covers the Port-au-Prince area of Haiti. For those that don't or can't view the file in Google Earth, the new imagery can also be viewed in [Google Maps](#).

Google plans to update the imagery as it becomes available and changes will be automatically reflected in this KML. The imagery was acquired by Geo-Eye.

- [DigitalGlobe has collected](#) over 120,000 km<sup>2</sup> of high-resolution color and black and white imagery of Haiti since activating the Crisis Event Service on Wednesday, January 13. And yesterday, we re-imaged virtually the entire country, adding another 75,000 km<sup>2</sup> of new imagery. View the [Haiti coverage map](#) to see how the DigitalGlobe Constellation has achieved this remarkable coverage.

### [Nigeria: Imo State govt embarks on re-certification of land titles](#)

To meet public expectations on Land Use Administration and Management in the state, in line with the New Face of Imo philosophy, Imo State government has procured a fully computerised facility under the [Imo Geographical Information Service](#), to re-certify land titles.

Disclosing this to newsmen, Commissioner for Lands, Survey and Urban Planning, Hon. Levi Oguike, said the IGIS would offer electronic processing and storage of all state land records into a digital database and electronic lands and deeds registry, with a non refundable processing fee of N20,000.

### [Public notice on re-certification of land titles](#)

Imo State Government has come to the decision to Issue New Documents with appropriate security features, which in some case would include BIOMETRICS, to all Government Property TITLE Holders, such as Certificates of Occupancy (C of Os) Deeds of Assignments and all other legal Land Titles registered in the

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Lands and Deeds Registry of the State beginning from 4th January, 2010. This exercise shall run through and end on 30th June, 2010. All land title holders are therefore required mandatorily to present their title documents for RE-CERTIFICATION at the IMO GEOGRAPHIC INFORMATION SERVICE, IGIS PLACE, NO 1, Chief Emmanuel Iwuanyanwu Avenue (OCDA Complex), Off Port-Harcourt Road, New Owerri, Imo State.

[Imo government re-certification order on land titles ends June 2010](#)

Source: Kate Lance

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## Articles

### [Salinity monitoring in western Australia using remotely sensed and other spatial data](#)

By [Suzanne Furby](#); [Peter Caccetta](#); [Jeremy Wallace](#);

Courtesy of [Journal of Environmental Quality](#)

The southwest of Western Australia is affected by dryland salinity that results in the loss of previously productive agricultural land, damage to buildings, roads, and other infrastructure, decline in pockets of remnant vegetation and biodiversity, and reduction in water quality. Accurate information on the location and rate of change of the extent of saline land over the region is required by resource managers.

Full Abstract and paper download is available from [Environmental Expert](#)

### [Mature Malaysia](#) by [Bhanu Rekha](#)

Malaysia emerged as a unified State in 1963 after Singapore, Sabah and Sarawak joined peninsular Malaysia (Malaya). After the initial years of conflict with Indonesia, Singapore's exit and racial strife, Malaysia quickly put itself on the growth path by adopting revolutionary economic policies. After a significant economic growth in the 1980s and 1990s, Malaysia saw a shift from agriculture-based economy to one based on manufacturing and industry in areas like computers and consumer electronics.

With a tropical climate throughout the year, Malaysia is endowed with rich natural resources and a rich culture. True to a local saying, Budi Bahasa Budaya Kita (politeness is our culture), Malaysia has been quite accommodative of different ethnicities, religions and languages. After strengthening the core areas, the country turned to technology innovation and started building world-class infrastructure in line with its Malaysian Plans. In the process, the this equatorial country started investing in geospatial technologies and today, Malaysia has a mature geospatial community, with each government department and organisation either already building or looking at setting up enterprise level GIS facility.

This article brings a comprehensive report of geospatial technology and industry in Malaysia with details of individual stakeholders comprising geospatial - data providers, users and industry.

Source: GIS Development

### [GIS and Cartography: The critical nexus](#)

The author recently ... had the privilege of reading two books that occupy ground at the relative forefront of their respective fields. These books were "[Rethinking Maps: New Frontiers in Cartographic Theory](#)" edited by Martin Dodge, Rob Kitchin and Chris Perkins; and "[Qualitative GIS: A mixed methods approach](#)" edited by Meghan Cope and Sarah Elwood. The fields represented by such work could be said to be Critical Cartography and Critical GIS respectively, however despite these two emergent traditions it is quite clear that there exists a lot of crossover and a lot of potential for crossover between them.

Source: Dan Lewis blog & [GIS Development](#) (January 11)

### [Challenges of Mapping Applications in Health and Academic Research in the underdeveloped World - Case Study of The Niger Delta Region \(Nigeria\)](#) by [Robinson Tombari Sibe](#)

#### **Abstract**

Geographic Information System has been used globally as an effective tool in several sectors - health and education inclusive. However, not much has been achieved in this regard in the underdeveloped economies. This paper x-rays the various challenges faced using the Niger Delta Region as a case study. Some of the problems discussed include the lack of technology, man-power (expertise), standardization, unorganized datasets and lack of proper framework to support information interchange between the various stakeholders. The paper also discusses various intervention projects initiated in the region where mapping application was used in health and educational analysis. Prominent of this is the Niger Delta Regional GIS (by Niger Delta Development Commission) and a few other projects by the state governments. The paper also looks at an

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application designed by an indigenous company that offers a user friendly platform that is relatively cheap and with a huge potential in the implementation of low-cost web-based mapping solutions. The paper concludes by making recommendations on the various ways the health and educational sector can benefit from mapping applications in the region and indeed other underdeveloped economies.

Source: GIS Development

### [GIS and Climate Change - Geographic Information Systems Help Predict Environmental Impacts](#)

Using climate, water resource, and topographical data, GIS allows resource managers to predict possible impacts of climate changes based on historical and current trends.

Use of geographical information systems or GIS is a relatively recent planning tool that resource managers can use to visualize and [model environmental impacts of management areas](#). One important use has been in modeling the effects of climate change.

Historic climatic data shows an increase in the Earth's surface temperature that coincides with the Industrial Revolution, about 200 years ago. The National Climatic Data Center reports that the last decade of the 20th century was the warmest on record.

Read more at [Suite101](#).

Source: [GIS Development](#)

### [Your Brain on GIS](#)

If we look at a GI science text (the top of the pile being Longley et al, 2005) we learn quite simply that objects represent discrete entities that we might encounter such as cars, wheelbarrows, buildings, fences, roads or fruit. These discrete objects are best encoded as either a point, line or area (polygon). This gives the discrete object a kind of exacting presence in the GIS environment. On the other hand, things that aren't discrete, i.e. they exist not as a single definable thing, but as a continuous 'everywhere', can be lumped into the 'field' category, which we know as 'raster images'. These rasters are grids of cells which cover a defined area entirely and hold a value for each cell giving a *defacto* continuous field. Obviously using cells means it isn't continuous, but lets ignore that and pretend we're happy; in the end a good resolution will fool you into thinking that a raster represents a continuous space.

Source: Volunteered Geographic Information blog

## Books and Journals

### [The SAGE Handbook of Remote Sensing](#)

Written by leaders in the field from North America, Europe, and Asia, this handbook is the first single-volume comprehensive survey of terrestrial remote sensing in many decades. Organized into six sections comprising over 30 chapters, and including over 140 colour and black and white illustrations, this is an engaging and wide ranging review of the field.

To order a copy at a discount (the amount can vary depending on where in the world you're based), [contact](#).

### [SDI—Canadian Spatial Data Infrastructure 2005–2009](#)

A [report from the Canadian Spatial Data Infrastructure](#) (CGDI) is available for the period 2005–2009. Since the last report in 2005, 93 new portals have been created across the country. A further 268 projects were established and 121 were funded. Seven new regional atlases were also made available.

Source: Vector 1

### [NSDI in India – through the years - Book on National Spatial Data Infrastructure in India](#)

The National Spatial Data Infrastructure (NSDI) initiative in India began in the year 2000. [‘NSDI in India: Through the years’](#) a comprehensive book charts the course of this decade long journey, which is still continuing.

For the first time in India, all events related to NSDI are now brought together in this story by the Coordinates ([www.mycoordinates.org](#)) team of Bal Krishna, Shubhra Kingdang, Sanjay Malaviya and Prof P Misra. An attempt has also been made to NSDI, after the initial euphoria still nowhere near being the information in a country where growing by leaps and bounds. The book is organised as

**... the story of NSDI in India  
has its own twists and turns,  
its own action, its own drama,  
its own highs and lows ...**

delve into the reasons why and despite many efforts, is 'one-stop' source of spatial the need for the same is

episodes, and the heading of

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each episode captures the mood prevailing in NSDI at a particular juncture. While maintaining the chronology of the actual NSDI related events – like meetings, workshops, articles, interviews and press releases - the book highlights the significance of individual events by short commentaries, notes and posers.

The happenings of each year have been summed up in a wrap-up section. Other NSDI related documentation like the Strategy and Action Plan (2001), the New National Map Policy 2005 et al has been included in the appendices for easy reference. The effect is a comprehensive compilation of information on NSDI in India.

Preview of the book is available at [www.mycoordinates.org/nsdi\\_in\\_india\\_book](http://www.mycoordinates.org/nsdi_in_india_book)

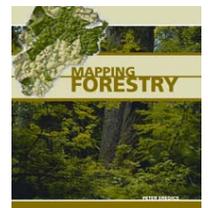
For more information on **NSDI in India: Through the years** (First Edition 2009, ISBN: 978-81-908172-1-9, -- pages, Rs. 1500 / US\$ 35.00). Please [email](mailto:mailto:) or call +91 – 9810233422, 9810724567.

### [Pelican Journal of Sustainable Development - January 2010](#)

This issue is a directory of selected online resources on sustainable development and related issues. The directory is minimally annotated and compiles links to research and data resources. [Supplement also available](#).

Source: Editor of the Journal - Luis T. Gutierrez

[Mapping Forestry](#) from ESRI Press provides a unique view into some of the many ways geographic information system (GIS) technology is being used throughout the world to support better forestry and land management decisions. The book provides firsthand reports from forestry professionals on their use of GIS to manage commercial operations and promote sustainable stewardship. Presented are approaches for determining the best route for building roads through forest lands, whether logging in a particular area is commercially viable, which fire-damaged areas of forest should be restored first, and more.



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## Just for Fun !

### [4D Cityscape Time Puzzle - 3D puzzles where you build city skylines chronologically](#)

World's first jigsaw puzzle to include a temporal component. **NOTE:** At this stage only one (New York City) of the 14 products listed in the ambitious homepage is currently available. The remainder are "coming soon".

Source: V1 Newsletter



### [Breathing Earth](#)

The breathing earth website provides a range of animated country specific statistics including: Population (births and deaths), CO2 emissions

Source: V1 Newsletter and <http://www.breathingearth.net/>



### [New York public Library \(NYPL\) Map rectifier](#)

The NYPL Map Rectifier is a tool for digitally aligning ("rectifying") historical maps from the NYPL's collections to match today's precise maps. Visitors can browse already rectified maps or assist the NYPL by aligning a map. Play the video above to tour the site and learn how to rectify a map yourself.

Everyone is welcome to participate!

Source: V1 Newsletter [further note: it is worth visiting the site to appreciate just what is available]



### [Hyvista "Image of the month"](#)

We are not sure what this image actually shows but we are confident that it is interesting. We found it at <http://www.hyvista.com/archives/252> after [Asian Surveying & Mapping](#) brought it to our attention.

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## Training Opportunities

### **Training Workshop: Spatial Data Sharing and Web Mapping Using FOSS4G MapServer and OpenLayers**

A one day web mapping workshop is scheduled to be held in Hanoi on 3rd Feb 2010 by Japan-Vietnam Geoinformatics Consortium in cooperation with PeaceSoft Corp., Vietnam. The workshop is limited to 10 participants and the Venue and Time will be decided shortly. For further details, you can [contact Ms. Pham Van Nga](#).

### **Demographic and Health Surveys (DHS) course in Kenya**

University of Nairobi Enterprises and Services Ltd is offering a professional short course on Demographic and Health Surveys for Health for June 21-25, 2010 in Nairobi, Kenya. The course provides an overview of the DHS surveys and how to use DHS data to improve health programs.

Demographic and Health Surveys (DHS) are nationally-representative household surveys that provide data for a wide range of monitoring and impact evaluation indicators in the areas of population, health, and nutrition. Demographic and Health Surveys provide countries with a standardized tool to obtain indicators for the effective monitoring of national programs such as those on HIV/AIDS, health and family planning services available in a country. [Contact: Prof. Mwanthi](#)

Source: Kate Lance

### **Master of Spatial Information Science** at the [University of Melbourne](#)

The Master of Spatial Information Science is suitable for graduates of any discipline who are seeking an applied area for their theoretical skills or for those who have had some experience in the use of spatial information and want to become spatial practitioners in their field of specialisation.

### **Forestry GIS User Group Opens for Membership**

ESRI has launched a new user group specifically for its forestry and timberland management customers. The newly formed ESRI Forestry Group (EFG) will build opportunities for foresters to learn about business solutions, network with like-minded professionals, and develop professional growth.

Source: Vector1Media

### **UNIGIS MSc now in Australia**

The international UNIGIS MSc postgraduate degree is now offered in Australia through the UNIGIS study centre at the University of Canberra, ACT. Students are invited to enrol in a joint programme combining the capacities from the University of Canberra and University of Salzburg, Austria.

This new UNIGIS study centre is led by Prof. George Cho at the Institute of Applied Ecology, University of Canberra. It offers in-service distance education for professionals interested in GIS and Geoinformatics. Courses towards the MSc will be launched with an on-site workshop in later in 2009 and lead students to recognized international academic degrees.

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

### **Trimble Seminars**

Trimble will launch a new series of web seminars for people with an interest in GPS and GIS. They will be offered every 4-6 weeks. The schedule for upcoming Webinars includes: an introduction to the new Yuma rugged tablet computer and VRS. Visit the [Trimble website](#) for more information.

Source: [Asian Surveying & Mapping](#)

### **Web Map Gallery**

[Web Map Gallery](#) | [Contribute Web Map](#)

Web Map Gallery is a resource for readers to see what others geospatial professionals have created. We encourage you to contribute to the gallery so that all may benefit from the breadth of geospatial applications now being used in many industries. Please feel free to use the link "Contribute Web Map" above to add your own Internet-based mapping application with as much information as necessary to explain your contribution.

Source: [Directions Magazine](#)

### **GIS software training by ESRI**

ESRI now offers access to more than 40 beginning, intermediate, and advanced instructor-led GIS courses through a variety of training alternatives and venues including

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- Video teleconferencing training at the ESRI learning centers
- Virtual Classroom **online training delivered to students' own workplaces or home computers**

Source: [GIS News](#)

### [ESRI Training Program](#)

ESRI in Singapore has released its training schedule for the first part of 2010, up to next February. Seats are reserved on a 1st-come, 1st-served basis, upon registration. Training prerequisites will be as indicated in the course notes. For course outlines, contact [ESRI](#) direct.

### [Geospatial technology update seminars scheduled for SE Asia](#)

ESRI and GIS Development will present free seminars to mapping agencies in Southeast Asia. The Geospatial Technology Update seminars will take place in Jakarta, Indonesia; Bangkok, Thailand; Hanoi, Vietnam; Kuala Lumpur, Malaysia; and Manila, Philippines; beginning in January 2010. The seminars will outline technology trends in the geospatial community including how to take advantage of the Web 2.0 environment, the integration of topographic and remotely sensed data, and how to best offer published data via cloud computing. Mapping organization staff members and managers and their affiliates, including national hydrographic and aeronautical agencies, are invited to attend the free, daylong program in their respective cities. For more information and to register, visit <http://www.GISdevelopment.net/GTUS?>. For more information on how mapping agencies use GIS software, visit [www.esri.com/maps](http://www.esri.com/maps)

## Funding Opportunities, Awards, Grants

### [There are two mapping contests of note.](#)

The first is [ESRI's 2010 Mashup Challenge](#): "Create an innovative mashup using ArcGIS Online and Web Mapping APIs". Four cash prizes are available with a top prize of \$10,000. Second place wins you \$5,000 and third and fourth place are \$2,500 each. **The deadline is March 5, 2010.** Second, Microsoft is offering you a chance to win a \$100 gift card for trying out Bing Maps. [The Bing Maps Challenge](#) invites you to explore New York via Bing Maps in order to answer four questions. **The deadline is February 19, 2010 & is open only to US residents.**

Source: GISLounge

### [MapGuide Project Sponsorship Program](#)

The MapGuide Project Steering Committee is pleased to announce the MapGuide Open Source Project Sponsorship and Donation program. This program provides a source of funding to help ensure the continued success of MapGuide Open Source. The full details of the program are available at <http://mapguide.osgeo.org/sponsorship>.

Source: [OSGeo](#)

### [NAVTEQ Global LBS Challenge](#)

The NAVTEQ Global LBS Challenge is focused on driving the development and visibility of innovative location-based solutions (LBS) for wireless devices. The Global LBS Challenge has become the premier event in the wireless industry and a global symbol of LBS innovation and opportunity. From business applications to sports, travel and security, integrating the accuracy and richness of NAVTEQ digital map data facilitates the discovery of the next wave of LBS using dynamic positioning technology.

Winners are chosen by a panel of distinguished judges in each of five regions. Since the launch of the NAVTEQ Global LBS Challenge, over 32% of the finalist companies have gone on to receive venture capital funding or launched commercially-distributed applications, many on major wireless carriers.

Further information on the registration process is available from [here](#)

Thanks to Kate Lance & Wonkug Baek for this update on the Challenge:

**UPDATE: [Eight new sponsors for NAVTEQ LBS Challenge](#) Microsoft, Intel, Digital Globe, Alcatel-Lucent, Atlas CT, Imagination Technologies and Mobile Distillery** are the new added sponsors to the list. Previously announced sponsors were HTC, Blackberry, deCarta, DeviceAnywhere and Tanla. These sponsors are contributing to a prize pool valued at over \$10 million, mostly made of professional licenses (maps, geospatial platforms, software testing tools, etc).

Source: NAVTEQ

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### [Earn a PhD in Fuxin](#)

Professor Xu Aigong is seeking PhD students to study under him at Liaoning Technical University in Fuxin, China. His subjects of interest include geodesy and geomatics, GNSS, GIS and intelligent transportation systems. Students may be eligible for support under the 2010 Liaoning Provincial Government Scholarship Program. Email [Prof. Xu](#) for details

### **Graduate Research Assistantships at Ohio University for Study of Local Knowledge and Climate Change Adaptation in Tanzania (see below in EMPLOYMENT OPPORTUNITIES)**

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## Employment Opportunities

### **Graduate Research Assistantships at Ohio University for Study of Local Knowledge and Climate Change Adaptation in Tanzania**

Two two-year research assistantships at the M.A. level are available at [Ohio University \(USA\)](#), through a new project on local knowledge and climate change adaptation in Tanzania supported by the National Science Foundation's Geography and Spatial Science (GSS) Program. The project – [Linking Local Knowledge and Local Institutions for the Study of Adaptive Capacity to Climate Change: Participatory GIS in Northern Tanzania](#) – investigates the myriad ways in which human, social, and institutional capital enable households and communities to draw on local knowledge and outside specialist knowledge to moderate the negative effects of greater climatic instability on rural livelihoods.

In addition to completing required courses for the M.A. program over two academic years (2010-2011 and 2011-2012), the successful candidates will contribute to an international interdisciplinary research project. One graduate research assistant will work on the development of online multimedia applications derived from a participatory GIS. Background or interest in cartography and web-based mapping is desirable. A second research assistant will work with the research team on the implementation of the project's participatory field methodology and contribute to data analysis. The student's interests should be focused on environment-development interactions (e.g., the dynamics of resource access, political, environmental or cultural-linguistic dimensions of local knowledge systems, gendered aspects of climate change adaptation).

**Application deadline for Fall 2010 admission: February 15, 2010**

For more information about the assistantships, contact [Tom Smucker](#).

### **GIS/Web Development Manager, Kabul**

We have a position vacancy for a GIS/Web Development manager based in Kabul. Further details pasted below. Role will be about 12mths initially, with potential for extension for a further couple of years. Salary scale is based on your personal history plus a small bump as per normal USAID practice, plus 70% in danger and away from home allowances and paid in US dollars. Paid time off is up to 3mths per year, includes 2 return trips to home or a place of your choice, and 2 other trips where they drop you at Dubai or Delhi, and includes full medical and life insurance. Food, accomodation (secured by nepalese ghurkas and local security), laundry and most other needs are catered for. If you're single, move to Australia first, take the job and enjoy tax free status for development work. We live next to a supermarket.

The environment does have its risks of course as you will have seen on the news, but the workplace environment is relatively safe. You arent normally exposed to the stuff you see on TV, and its nothing like Iraq. You can leave the compound, go to cafes' bars and restaurants, also a local shopping mall, and other activities. If you have queries I am happy to answer, but in the meantime, please send me your resume.

Duane Wilkins, GIS Manager | Afghanistan Infrastructure Data Centre | 34.534058° 69.177744°  
Regional Command South and West, Health, Education, Infrastructure Liaison  
USAID Human Resources and Logistical Support Program II  
Ph: +93 700 219 622 [Email](#).

**Spatial Jobs Online (Australia) Because of tight application closing dates the editors provide these websites for employment seekers to access directly:** < <http://www.spatialjobs.com.au/> > and < <http://www.GISjobs.com.au> >

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## Looking for a GIS - Geomatics Job in Canada?

Here are some links: 1) [Geomatics Canada Job Site](#); 2) [GeographyJobs.ca](#); 3) [GoGeomatics Canada](#); 4) [Geomatics Employment Center](#)

Source: V1 Magazine

## Conference Proceedings

### [5th gvSIG Conference Proceedings available](#)

The videos of the report sessions and workshops at the 5th gvSIG Conference, that were held the first week of December 2009, are available already.

All the videos are available with English and Spanish audio. They are available to be downloaded directly as well as to be visualized online.

With this publishing, we pretend to bring the Conference closer to the interested people that couldn't attend the event, having the possibility to access to the recording of the different sessions.

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## Conferences, Events

For upcoming events of global or major international interest, please visit the [upcoming conference list](#) on the GSDI website.

### [FIG 2010 Pre-Congress Program](#)

Online registration is now open for the FIG surveying congress to be held in Sydney, 11-16 April 2010. A local surveyor, John Brock, has arranged a history seminar on the two days leading up to the congress (9-10 April). Technical tours have also been organised, including a boat trip to historic Fort Denison.

Source: [Asia Surveying and Mapping Magazine](#)

### The editors welcome news of conferences & events from the newsletter subscribers

Date	Location	Event
<b>February 2010</b>		
<b>2-4 February</b>	Torino, Italy	<a href="#">Gi4DM 2010 Call for Papers</a> Organisers of the <b>International Symposium on Geo-information for Disaster Management (Gi4DM 2010)</b> have issued a call for papers related to the conference theme, 'Remote Sensing and Geo-Information for Environmental Emergencies'. Invitation is also open for contributions covering crisis management in any phase.
<b>15-17 February</b>	Kochi, India	<a href="#">Societal Applications in Fisheries and Aquaculture using Remote Sensing (SAFARI) Symposium</a> The SAFARI initiative (Societal Applications in Fisheries and Aquaculture using Remote Sensing) is organising an international symposium on Remote Sensing and Fisheries. The symposium will address a number of themes including Operational Use of Remote Sensing for Fish Harvesting; Ecosystem Indicators to assess Fish Health, Growth and Recruitment; and Implications of Climate Change on Fisheries, amongst others. Abstracts should be <a href="#">submitted electronically</a> no later than October 15, 2009. <b>Limited funds for travel expenses will be available to assist selected participants in their efforts to attend the symposium.</b>

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<b>17-19 February</b> <b>"NEW"</b>	Washington DC, USA	<a href="#">ESRI Federal User Conference</a> Walter E. Washington Convention Center , Washington , D.C. , United States <b>Organiser:</b> ESRI <b>Contact:</b> 380 New York Street Redlands, CA 92373 Phone: 909-793-2853 x2421 <a href="#">Email</a>
<b>21 - 25 February</b> <b>"NEW"</b>	Dubai, United Arab Emirates	<a href="#">GIS World 2010</a> <b>Organiser:</b> IIR Middle East <b>Contact:</b> P.O Box 21743, Dubai Phone: 971 4 407 2526 Fax: 971 4 335 2438 <a href="#">Email</a>
<b>March 2010</b>		
<b>3 – 5 March</b>	Gold Coast, Australia	<a href="#">ESRI Asia Pacific User Conference and OZRI 2010</a> The theme for the conference is <b>GIS: extending the reach</b> . ESRI Australia clients, ESRI users and distributors from around the Asia Pacific region are invited to share their knowledge and experience by submitting an abstract based on the conference theme. The event incorporates OZRI 2010, ESRI Australia's national client conference.
<b>3 – 5 March</b>	Denver, Colorado, USA	<a href="#">International LiDAR Mapping Forum (ILMF10)</a> <a href="#">Conference Programme (pdf)</a> For more information <a href="#">contact</a>
<b>22 – 24 March</b>	Abu Dhabi, UAE	<a href="#">Map Middle East 2010</a> <a href="#">Contact</a>
<b>23 – 26 March</b>	Kyushu Sangyo University, Fukuoka, Japan	<b>Fifth International Workshop on "Geographical Analysis, Urban Modeling, Spatial Statistics" <a href="#">GEOG-AN-MOD 10</a></b> in conjunction with <a href="#">The 2010 International Conference on Computational Science and its Applications (ICCSA 2010)</a> <b>Important dates</b> <b>10 November, 2009:</b> Deadline for full paper submission <b>7 December 2009:</b> Notification of acceptance <b>8 January 2010:</b> Deadline for Camera Ready Papers <b>March 23-26, 2010:</b> ICCSA 2010 Conference For <b>further information or questions</b> , please send an e-mail to: <a href="#">Giuseppe Borruso</a> (University of Trieste, Italy) or <a href="#">Beniamino Murgante</a> (University of Basilicata, Italy)
<b>April 2010</b>		
<b>11 – 14 APRIL</b> <b>"NEW"</b>	Manama, Bahrain	<a href="#">Geospatial Intelligence Middle East 2010</a> <a href="#">Email</a>
<b>11-16 April</b>	Sydney, Australia	<a href="#">International Federation of Surveyors (FIG) Congress 2010</a> <a href="#">Contact</a> <a href="#">email</a> <b>The deadline for submission of abstracts is 22 September 2009.</b> <a href="#">Alternative URL:</a> <b>FIG 2010 Pre-Congress Program</b> Online registration is now open for the FIG surveying congress to be held in Sydney, 11-16 April 2010. A local surveyor, John Brock, has arranged a history seminar on the two days leading up to the congress (9-10 April). Technical tours have also been organised, including a boat trip to historic Fort Denison.
<b>12-13 April</b>	Melbourne, Australia	<a href="#">The International Symposium on Coastal Zones and Climate Change (IS CZ)</a> will be held 12-13 April, 2010 at Monash University in Australia. The coastal zone will house 75 per cent of the world population by 2025. However, coastal zones face severe socio-economic and environmental problems, of which rising sea level is just one. The symposium is sponsored by the Asia Pacific Network for Global Change Research. <b>Contact - Registration queries</b>

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		Email: <a href="mailto:Irene.Thavarajah@adm.monash.edu.au">Irene.Thavarajah@adm.monash.edu.au</a> <b>Contact - Further Queries</b> Email: <a href="mailto:Charlotte.Fisher@sci.monash.edu.au">Charlotte.Fisher@sci.monash.edu.au</a>
<b>April 13-15, 2010</b>	Toronto, Ontario	<a href="#">GeoTec 2010 - Increasing Productivity, Potential and Profits</a> <b>Call for Presentations – 2010 GeoTec Event</b> <b>DEADLINE EXTENDED! - Submissions due December 7, 2009</b> <b>Contact</b> <a href="#">Kathleen Hastings</a> .
<b>14-16 April</b>	Zahedan, Iran	<a href="#">4th International Congress of the Islamic World Geographers (ICIWG2010)</a> <b>Abstract deadline has passed.</b> This congress is a chance for scholars across Iran and the world to exchange ideas and offer solutions in order to address obstacles facing the Islamic world and furthermore achieve sustainable development. Information Technology advances, especially in Information Management as well as new technologies in Geographic Sciences such as Geographic Information System (GIS) and Remote Sensing (RS), are very important to the geography community. <a href="#">Contact</a> .
<b>25-29 April</b>	Phoenix, Arizona	<a href="#">2010 GITA</a> <a href="#">Email</a>
<b>April 26-28</b>	Al-Khobar City, Saudi Arabia	<a href="#">The Fifth National GIS Symposium and Exhibition</a> . Featuring a state-of-the-art exhibit, plenary, keynote, and technical sessions, the symposium will bring all stakeholders in the geospatial domain – academia, researchers, students and the industry – onto one platform for interaction, sharing and discussion on various topics such as collaboration on spatial technology and experiences gained. For further details, check the website.
<b>26-28 April</b>	Singapore	<a href="#">Spatially Enabled Government Asia – Singapore – 2010</a> <b>Spatially Enabled Government Asia</b> will focus on the strategies for data management and data sharing. <a href="#">Email</a>
<b>26-29 April</b>	Sendai, Japan	<a href="#">PICES Symposium</a> , an international symposium on Climate Change Effects on Fish and Fisheries: Forecasting Impacts, Assessing Ecosystem Responses, and Evaluating Management Strategies. <b>Abstract submission deadline:</b> November 30, 2009 <b>Financial support application deadline:</b> January 15, 2010
<b>26 - 30 April</b> <b>“NEW”</b>	San Diego , California , United States	<a href="#">ASPRS 2010 Annual Conference</a> <b>Organiser:</b> American Society for Photogrammetry & Remote Sensing <b>Contact:</b> 5410 Grosvenor Lane Suite 210 Bethesda, MD 20814 Phone: 301 493 0290 x106 Fax: 301 493 0208 <a href="#">Email</a>
<b>28-29 April</b>	Kuala Lumpur, Malaysia	<a href="#">The 6th International Remote Sensing and GIS Conference and Exhibition (MRSS 2010)</a> is being organised by the Malaysian Remote Sensing Society (MRSS) and Universiti Putra Malaysia. It is scheduled for 28-29 April, 2010 at PWTC in Kuala Lumpur. MRSS has issued a call for papers for the conference. Abstracts must be submitted by 10 January, 2010. <b>Contact</b> <a href="#">E-mail (Attn: Ms Nuraini Bt Abdul Thalib)</a>
<b>Date to be announced</b>	Taipei	<a href="#">ASIA GIS 2010 Conference</a> further details to be announced
<b>May 2010</b>		
<b>17-21 May 2010</b>	Chicago, USA	<a href="#">The 2010 International Symposium on Collaborative Technologies and Systems (CTS 2010)</a>

		<p><b>Contact</b> contact one of the Symposium's Co-Chairs:  <a href="#">Bill McQuay</a> or <a href="#">Waleed W. Smari</a>.</p> <p><a href="#">Workshop on Sensor Web Enablement 2010 (SWE2010)</a>          As part of <b>The 2010 International Symposium on Collaborative Technologies and Systems (CTS 2010)</b>          Abstract Submission Deadline: December 18, 2009          Paper Submission Deadline: January 8, 2010          Notification of Acceptance: February 7, 2010          Registration &amp; Camera-Ready Paper Due: March 1, 2010  <b>Note that the workshop paper submission deadline is different from that of the CTS 2010 main conference.</b></p>
<b>20-21 May 2010</b>	Taipei, Taiwan	<p><a href="#">7th Taipei International Digital Earth Symposium (TIDES) 2010</a>  <b>Abstract deadline: December 31, 2009.</b>          This year's theme is "Digital Earth for the New Generation Towards a Green Earth", and topics are related to the fields of Earth Observation &amp; Technology, Social Science &amp; Education, and Environmental Change &amp; Strategy. The focus through these discussions is to upgrade Digital Earth education for the young generation and attract more young people to become involved in Digital Earth study, to help restore the balance now missing in our relationship with the Earth. <a href="#">Contact</a></p>
<b>26-28 May</b>	Hong Kong	<p>The <a href="#">14th International Symposium on Spatial Data Handling</a>          Organisers are inviting abstracts related to the theme Theory, Modelling and Concepts in Geospatial Information Science. The event will explore topics such as digital cartography, data modelling for social science and interoperability. The deadline for abstracts is 31 August. Pdf flyer available at <a href="#">International Symposium Announcement</a></p>
<b>27 – 28 May</b>	Bishkek, Kyrgyz Republic	<p><a href="#">Fourth Central Asia GIS Conference (GISCA 2010)</a>  <b>Water: Life, Risk, Energy and Landuse</b>          Contact: <a href="#">Dr. Akylbek Chymyrov</a> Tel: +996 (312) 545602</p>
<b>June 2010</b>		
<b>2 – June</b> <b>"NEW"</b>	New Delhi, India	<p><b>GeoIntelligence Asia</b>          Conference and Exhibition on Geospatial Technologies for Defence and Security</p>
<b>9-11 June</b>	Washington, DC USA	<p><a href="#">The First International Conference on Computing for Geospatial (Com.GEO 2010)</a>  <b>Important Submission Deadlines</b>          Full and Short Papers February 19, 2010,          Courses Proposal February 19, 2010          Tech Talks Abstract March 22, 2010,          Invited Sessions Proposal January 25, 2009          Workshops Proposal January 25, 2009</p>
<b>9-11 June</b>	Nottingham, United Kingdom	<p><a href="#">The British Cartographic Society Annual Symposium 2010 'Talking With Maps'</a>          The closing date for submissions is Friday 8th January 2010. Successful submissions will be notified by no later than Friday 22nd January.          Proposed titles and abstracts of no more than 300 words should be submitted to:  <a href="#">Mr P Jones</a>, Chair of Programme Committee, Defence Geographic Centre, Hotine 141, Elmwood Avenue, Feltham, Middx, TW13 7AH.</p>
<b>18-20 June 2010</b> <b>"NEW"</b>	Beijing, China	<p><a href="#">18th International Conference on Geoinformatics (Geoinformatics 2010)</a>          The conference theme is "GIScience in Change".</p>

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		<p><b>CALL for Papers: Abstract deadline:</b> January 30, 2010. CPGIS will organize student paper competition. The top quality papers will be selected as CPGIS Geoinformatics' 2010 Best Student Paper to receive plaque and cash award, and will be invited to submit a revised version to a special journal issue.</p> <p><b>Pre-conference workshop:</b> Topological analysis of urban street networks for better understanding of human mobility patterns</p>
<b>21-22 June</b>  <b>"NEW"</b>	Nottingham, UK	<p><b><u>The OSGIS Conference (Open Source GIS UK Conference)</u></b></p> <p>As a highlighted event, the first <a href="#">gvSIG Day</a> will be held at the Conference. The main activity of this day will be a wide workshop during 8 hours the 21st June, where gvSIG Desktop and gvSIG Mobile will be shown in-depth.</p> <p>The entities that wish to <a href="#">contact</a> with the <a href="#">gvSIG Association</a> previously can do it from the form of the website [4], with the objective of planning meetings for the gvSIG Day.</p>
<b>21-24 June</b>	Yogyakarta, Indonesia	<p><b><u>9th GISDECO Conference</u></b></p> <p>Theme: Applying Remote Sensing and GIS in Disaster Management</p> <p><b>Abstract deadline: 15 January 2010.</b></p> <p>The conference aims to encourage the use of geospatial information in disaster and risk management as well as a basis for spatial planning and regional development.</p> <p>Contact: <a href="#">Dr. Richard Sliuzas, ITC</a></p> <p>For practical matters: <a href="#">Dr. Projo Danoedoro</a>, PUSPICS Faculty of Geography, Gadjah Mada University,</p>
<b>28-30 June</b>  <b>"NEW"</b>	London	<p><b><u>International Conference on Information Society (i-Society 2010)</u></b></p> <p>Technically Co-Sponsored by IEEE UK/RI Computer Chapter</p>
<b>July 2010</b>		
<b>5 – 7 July</b>	Vienna	<p><b><u>100 Years ISPRS: Call for Papers</u></b></p> <p>Organisers of the ISPRS Commission VII Symposium (5-7 July 2010, Vienna) are inviting papers relating to the theme, 100 Years ISPRS – Advancing Remote Sensing Science. They are particularly seeking contributions that critically review major research areas in remote sensing. The deadline for full-paper review is 28 November 2009. The deadline for abstract-only review is 28 February 2010.</p>
<b>6-9 July</b>	Salzburg, Austria	<p><b><u>GI Forum 2010</u></b></p> <p>The organisers of the <b>GI Forum 2010</b> in Austria have issued a call for papers for the conference, which will be held 6-9 July. The conference theme is spatial assessment and analysis of vulnerability. Workshops will be held prior to the conference on 6 July. <a href="#">email</a></p> <p><b>IMPORTANT DATES</b></p> <p>Full papers for publication in the conference proceedings and oral presentation <b>February 1, 2010</b></p> <p>Extended abstracts for discussion session <b>February 1</b></p> <p>Extended abstract for poster presentation <b>June 7</b></p> <p>Workshop presentation <b>February 19</b></p> <p><b>Registration deadlines</b></p> <p>Early registration – until May 28, 2010</p> <p>Online registration – until June 25</p> <p>On-the-spot registration commences July 6</p> <p>The GI Forum pass provides access to the <a href="#">AGIT Symposium</a> and <a href="#">AGIT Expo</a> as well.</p>
<b>12 – 16 July</b>	San Diego	<p><b><u>30<sup>th</sup> Annual ESRI User Conference</u></b></p> <p><b><u>Call for papers &amp; presentations</u></b> – <b>Abstract deadline closed 6 November</b></p> <p>ESRI invites users to tell their GIS story by sharing their</p>

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		experiences with GIS and presenting during a moderated session at the 2010 ESRI International User Conference (ESRI UC).
<b>26 – 28 July</b> <b>“NEW”</b>	Kuala Lumpur, Malaysia	<a href="#">MapAsia 2010</a> <a href="#">Email</a>
<b>September 2010</b>		
<b>1-3 September</b>	Paris	<a href="#">PCV2010</a> PCV 2010 will be held in next year. It is an ISPRS selective conference covering all the aspects of computer vision and image analysis dealing with geographic data. PCV focuses on the processing of images and 3D point clouds, acquired from satellites, aircraft or from street level acquisition systems. <b>Important dates:</b> 1 March, 2010: for peer reviewed papers; 1 April: abstracts of non peer-reviewed papers. 31 August is tutorial day. Conference dates are 1-3 September, 2010. <a href="#">Website</a>
<b>6-9 September</b> <b>“NEW”</b>	Barcelona, Spain	<a href="#">FOSS4G 2010</a> 1 Feb 2010, Call for Abstracts opens 16 Feb 2010, Notification of acceptance for workshops/tutorials 22 Feb 2010, Registration for workshop and tutorials opens 1 May 2010, Abstract submission deadline 1 Jun 2010, Presenters notified of acceptance for talks 15 Jun 2010, Author/Early registration deadline Aug 2010, Completed program available 6-7 Sep 2010, FOSS4G Workshops 7-9 Sep 2010, FOSS4G Presentations and Tutorials 10 Sep 2010, FOSS4G Code Sprint Contact <a href="#">Conference Chair</a> for further details (Lorenzo Becchi)
<b>22–6 September</b> <b>“NEW:”</b>	Toyama, Japan	<a href="#">Asia-Pacific Radio Science Conference 2010 (AP-RASC10)</a> <a href="#">Contact</a>
<b>October 2010</b>		
<b>18 – 22 October</b> <b>“UPDATED”</b>	<a href="#">Singapore</a>	<a href="#">GSDI 12 World Conference – Realising Spatially Enabled Societies</a> In conjunction with the <b>16th PCGIAP Annual Meeting</b> . <a href="#">Call for Papers</a> <b>Abstract Deadline:</b> 1 April 2010 <b>Book Chapter Submission Deadline:</b> 15 March 2010
<b>November 2010</b>		
<b>31 October - 3 November</b> <b>“NEW:”</b>	Denver, Colorado	<a href="#">US - GSA Annual Meeting</a>
<b>8 – 11 November</b>	London	<a href="#">The 5th International Conference for Internet Technology and Secured Transactions (ICITST-2010)</a> Technical Co-Sponsored by IEEE UK/RI Communications Chapter, <a href="#">Contact</a> <b>IMPORTANT DATES</b> Full Paper Submission: May 31, 2010? Extended Abstract (Work in Progress) Submission: April 01, 2010 Proposal for Workshops and Tutorials: April 30, 2010? Notification of Workshop and Tutorial Acceptance: March 15, 2010 Proposal for Industrial Presentation: April 30, 2010 Early Registration Deadline: January 01 to July 31, 2010 Late Registration Deadline: July 31 to November 08, 2010
<b>December 2010</b>		
<b>22 December</b>	Kyoto, Japan	<a href="#">Japan - Topic Maps Japan 2010</a>

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<p><b>“NEW”</b></p>		<p>Topic Maps enthusiasts in Japan will gather together for this symposium. They will present the latest case studies, research, etc. They will discuss about identification of Subject/Knowledge/Information, classification, systematization, exchange/share of them, improving their findability with audience. They will also discuss effective utilization, new way of use. And they will aim at the spread, development and promotion of Topic Maps in Japan</p>
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