

Spatial Data Infrastructure – Asia and the Pacific (SDI-AP) is a free electronic newsletter from the [Global Spatial Data Infrastructure Association \(GSDI\)](#) which 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 synchronising these 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 and access archives of thematic or regional discussion lists [please visit](#).

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Message from the editors

Welcome to the August edition of the newsletter.

Please note that the GSDI organisation is currently planning for the GSDI conference and calling for Workshop and Tutorials — further information is available from [the GSDI website](#) and the Conference, Events section of the Contents of this newsletter.

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 25th 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 and Jeremy Huang for the Chinese translation as well as Shivani Lal, GIS Development, Asia Surveying Mapping Magazine for directly contributing to the newsletter.

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GSDI News

[GSDI Small Grants Program Recipients](#)

The 2009-10 GSDI Small Grants call for proposals was issued in August of 2009 resulting in 52 proposals -- of which, 32 were accepted and referred to regional review committees for their evaluation and recommendations. It is with pleasure that the GSDI announces the following winners of the 2009-10 GSDI Small Grants in the Asia Pacific region.

- Philippines - Assessing the SDI needs of NGOs in the Philippines: Non-profit groups as stakeholders in spatial data infrastructure

Primary Contact: TAO-Pilipinas, Inc, Quezon City, Philippines

- Timor Leste - Build the future of Timor-Leste with Maps

Primary Contact: National Directorate of Land and Property and Cadastral Services, Ministry of Justice, Timor-Leste

Contact Info: <astevens@godi.org>

SDI News, Links, Papers, Presentations

[Spatial Data Infrastructures - Challenges and Opportunities](#)

This is the second in a series of articles which explores spatial data infrastructures (SDIs).

The article discusses a number of the key challenges for SDIs including how to evolve to incorporate new technologies; how to deal with the question of differing quality of data such as authoritative data and data generated by crowdsourcing, volunteer networks etc.; how to expand SDI concepts into the practices of business and smaller units of government; and how to put in place the policy, financing and governance mechanisms that will promote and sustain SDIs over time.

Source: [Directions Magazine](#)

[Korea - Establishment of National Spatial Data Infrastructure](#)

"Establishment of National Spatial Data Infrastructure, a structured information system which includes land, natural resources, living environment, and other facilities based on digital maps" Establishing framework data. Provide a database designed from core geospatial information system that can be commonly used in the national GIS project.

Source: [Asian Surveying & Mapping](#) and National Geographic Information Institute (Korea)

[UN agency opens up access to largest database of hunger statistics](#)

Free access to FAO database contributes to sustainable development

9 July 2010 – The world's largest and most comprehensive database on food, agriculture and hunger is now open to the public, free of charge, the United Nations Food and Agriculture Organization (**FAO**) announced today. Previously, it was possible to download a limited amount of information from **FAOSTAT**, but access to large amounts of data required a paid annual subscription. The database contains over one million data points covering more than 200 countries and territories.

Source: [United Nations News Centre](#)



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[Geospatial Act needed for creating database in Malaysia](#)

The Natural Resource and Environment Ministry, Malaysia, is drafting a Geospatial Act to create a sophisticated and accessible geospatial database. The geospatial database would comprise geographical information presently owned by agencies, departments and the various states, according to Minister Datuk Seri Douglas Ungah Embas

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

[Community Remote Sensing Emerges](#)

The growing need for earth observation, and the limited reach of government-sponsored earth observing satellites and systems, has given rise to a rapidly emerging new field of community remote sensing. This new field combines remote sensing with citizen science, social networks, and crowd-sourcing to enhance the data obtained from traditional sources. It includes the collection, calibration, analysis, communication, or application of remotely sensed information by these community means.

Source: Asian Surveying & Mapping

[Spatial Metadata - Standards and All that Stuff](#)

Metadata provides details about spatial data that increases the value of the data. One does not simply look at metadata and boldly state, "that one is valuable and the other is not." To realise and experience the value of metadata users may not even know they are using it. The importance of metadata is not something we talk about often, instead, attention is more likely turned toward the technical side of things. How can we improve interest in building better metadata?

Source: Asian Surveying & Mapping

[Hindu Kush-Himalayan countries will use a global platform to share biodiversity data](#)

Some twenty-five representatives from the eight countries of the Hindu Kush-Himalayan region were meeting in Kathmandu from 14 to 18 June to discuss Open access to and publishing of mountain biodiversity data from the Hindu-Kush Himalayan region. The representatives, from Afghanistan, Bangladesh, Bhutan, China, India, Myanmar, Nepal, and Pakistan have been brought together in a workshop jointly organised by ICIMOD in collaboration with the Global Biodiversity Information Facility (GBIF) and the Global Mountain Biodiversity Assessment (GMBA).

Source: Kate Lance

[Centre for Spatial Law and Policy starts operations](#)

Source: [GIS development](#) & PRweb.com news release

[Geospatial Technology \(GT\) course introduced into Indian secondary schools](#)

As part of the certification scheme in India, Central Board of Secondary Education students will have to compulsorily pass two modules of geospatial technology (GT) in class XI and XII. So far 19 schools have added the GT classes.

Source: Directions Magazine [Education Tidbits](#) & Indian Express

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SDI Spotlight

This month the *Spotlight* feature is contributed by [Muyiwa Agunbiade](#), PhD candidate in the University of Melbourne's [CSDILA](#). His research topic is "Land Administration and the Incidence of Slum Formation in Lagos."

Land Administration for Housing Production in the context of SDI

It is apparent that city populations are increasing rapidly and will continue to do so over the next century. The rapid growth is placing resource pressure on land and invariably the demand for housing cannot be met. This is despite efforts from the homeless, developers, investors and government to enable housing production. This situation is manifested in the form of sprawl development of different forms at the fringes and inadequate housing and services at the city centres. Consequently, it could be inferred that current land administration systems do not adequately facilitate housing production that reflects the needs of the population.

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Housing production involves the processes and methods employed to construct or transform tangible inputs (building materials and land) intangible inputs (policy, ideas, information, know how) into dwelling units. The major housing production factors, in this regard include land, labour, capital and building materials. Land as one of the major production factors is essentially indispensable and its administration is thus crucial for adequate housing production. However, land administration systems are not an end but rather are tools to facilitate adequate housing, food security, wealth creation, and environmental management in the face of ever increasing population.

To adequately facilitate housing production requires an understanding of how land administration functions (land tenure, land value, land use and land development) and housing production factors impact housing production processes. It also involves the understanding of the role of government in assisting or inhibiting economic growth, social equity and environmental protection. Most importantly, it involves the understanding of data management and information flow between agencies and government functions, the standards that enable different datasets to be integrated, the network that will facilitate access to the data, and the policies that will guarantee sharing among agencies.

The main focus of the present research effort is to examine how land administration functions and housing production factors mediate housing production processes with particular focus on inter-agency interactions. Past research and practice, in both developed and developing countries, have focused on each of the land administration functions as an end in itself rather than as a coherent whole; they have emphasised particularly on land registration based on land parcels (i.e. the cadastre). This phenomenon is described as a silo effect, in which land administration agencies operate according to their internal norms and functions with limited inter-agency interactions. Consequently, there is insufficient knowledge about how housing production factors and land administration functions are linked *conceptually*, *theoretically* and *analytically* in a way that will guarantee housing production at scale in respective national jurisdictions.

The procedure for understanding housing production processes is multi-dimensional and thus requires multi-disciplinary approach that will bring together perspectives of different disciplines and fields of land administration, housing and political economy. This research is thus structured to explore the connections between land development, land market, and production factors (Figure 1) within the context of land delivery for housing production.

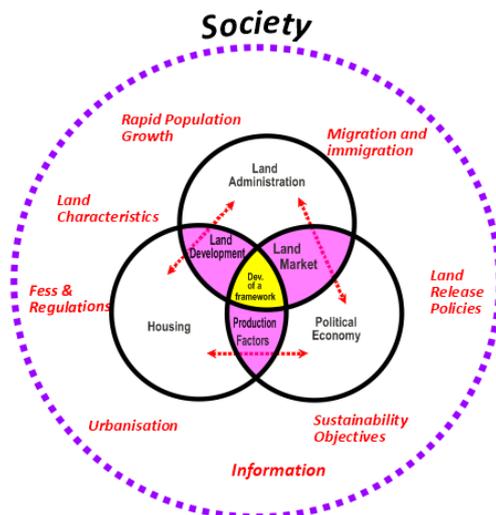


Figure 1: A Multi-disciplinary approach to understanding and improving housing production

-  Background
-  What implications for housing production?
-  Synthesis of variables to develop a framework and set of processes

This study adopts the engineering paradigm of designing, building and managing land administration systems that will better facilitate housing production. Given the nature of enquiry and the

range of issues, the mixed methodological approach (qualitative and quantitative) and a case study framework is considered most desirable for this research.

The expected key outcome is to develop a framework and a set of processes that will enable housing production at scale in respective national jurisdictions having regards to the spatial datasets required, the administrative principles that ensure integration and sharing of the datasets, and the utilisation of housing production factors.

GIS Tools, Software, Data**Harmonising Geography and Design**

In an interview with **Ramprasad, Jack Dangermond** talks about the growing acceptance of GIS in India, the need to develop liberal data sharing policies in the country and the role of geodesign in sustainable development.

Source: [Geospatial Today](#)

GIS and Fisheries

The “GIS Fish Global Gateway to GIS, Remote Sensing, and Mapping for Aquaculture and Inland Fisheries ([GISFish](#)) is a “one stop” site from which to obtain the depth and breadth of the global experience on GIS, remote sensing and mapping as applied to aquaculture and inland fisheries,” says the Food and Agricultural Organisation.

Source: [Vector One](#)

Hindu Kush-Himalayan news**[Regional Flood Information System in the Hindu Kush-Himalayan](#)**

The International Centre for Integrated Mountain Development (ICIMOD) in collaboration with the World Meteorological Organization (WMO) organised an inception meeting for a project to establish a regional flood information system in the Hindu Kush-Himalayan (HKH) region. The workshop was held from 23-25 June 2010 in Kathmandu and involved the participation of six regional partner countries, Bangladesh, Bhutan, China, India, Nepal, and Pakistan. The participating countries and partner organisations reviewed the HKH-Hydrological cycle observation system (HKH-HYCOS) and project goals, and clarified concepts, as well as agreed on a common plan of action including roles and responsibilities of all the project partners.

[Role of Satellite Imagery in Climate Change Research](#)

If [ICESCAPE](#) were a movie, I would begin its story by starting with a remote but panoramic camera shot of the Arctic Ocean, and only then, zoom in. Although I’m not a cinematographer, ICESCAPE makes use of technology that provides a similarly broad context for our field program – satellite imagery.

Satellite remote sensing plays two important roles within ICESCAPE. First, by analyzing daily satellite images of everything from sea ice cover to ocean temperature to the concentration of chlorophyll in the water, we can conduct a more efficient sampling program. Want to sample heavy pack ice? Or avoid it? Satellites tell us where to go. Want to collect seawater samples with lots of phytoplankton? Satellites tell us where they are.

The second role played by satellite imagery is a bit different — it is used to “fill in the blanks” in our field program. Even though ICESCAPE will sample a big chunk of the Chukchi and Beaufort seas, we can’t be everywhere all the time. That would take lots of ships, lots of time, and lots of money. But satellites can tell us what conditions were like before we arrive, after we leave, and in areas we don’t sample. The result? A better understanding of what we are seeing while we are here.

ALSO - [New Series: ICESCAPE Chief Scientist to Blog from Arctic](#)

Source: [Asian Surveying & Mapping](#) and [Armed with Science](#)

[New tool to accurately map earthquake risk](#)

Australia researchers are squeezing more information out of seismic waves to accurately map earthquakes and predict areas at highest risk. The findings were presented at the Australian Earth Sciences Convention in Canberra.

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

See also: [NASA Images reveal local quake activity](#) (10News.com) & [GIS Development](#)

[New service to help predict local traffic patterns](#)

Intelematics Australia has developed one of the country’s largest traffic databases to help local motorists and planners better predict travel times.

The new service, SUNA Predictive, provides an extensive database of real-world travel times across the Australian main road network. So far, more than one billion speed measurements have been captured using probe vehicles and fixed road sensors ensuring the new service reflects actual travel times rather than theoretical predictions based on road class or speed limits.

Source: [GIS Development Weekly](#) (12 July) & [PRwire.com](#)

See also: [Surge in GPS use for traffic information](#) ([GIS Development Weekly](#))

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[GIS to combat New Zealand crime](#)

The Western Bay region is set to become the first to use GIS to help combat crime. Tauranga police Constable Steve Campbell and Western Bay of Plenty Neighbourhood Support secretary Julia Kleve are working to develop a web-based database of all households belonging to neighbourhood support groups. This secure database will be used to send emails informing residents about crime or suspicious behaviour in their neighbourhood. The database could also be used in partnership with Civil Defence to keep residents regularly updated in the event of a disaster.

Source: [GIS Development Weekly](#) & *Bay of Plenty Times*

[Viet Nam - Ministry Prints Water-resource Atlas for Nhue-Day Basin](#)

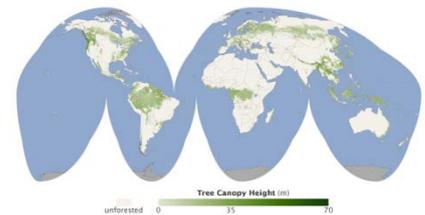
The Ministry of Natural Resources and Environment has published its first water resource atlas for the Nhue and Day rivers' basin. The atlas, which was created from the three-year project "Managing water quality in the Nhue-Day rivers' basin", will provide information relating to water resources and climate change in the area.

Source: [Asian Surveying and Mapping](#) & Viet Nam News

[Map details height of the globe's forests](#)

Using satellite data, scientists have produced a first-of-its kind map that details the height of the world's forests. Although there are other local- and regional-scale forest canopy maps, the new map is the first that spans the entire globe based on one uniform method.

Source: [Asian Surveying and Mapping](#) & The Hindu & [NASA](#)



[Korea's National Geographic Information Institute signs MOU with KOICA](#)

Source : Ministry of Land Transport and Maritime Affairs

The National Geographic Information Institute (NGII) announced that it signed an MOU with Korea International Cooperation Agency (KOICA) on July 12, 2010 for grant aid for topographic map making and other projects. Under the MOU, the two institutions agreed to cooperate in the areas of measurement and geographic information which will involve inviting foreign experts from developing countries to Korea, sending abroad domestic experts, and carrying out joint projects (including identifying, executing and evaluating projects).

[OGC Seeks Comments on MovingObjectSnapshot Standard](#)

The Open Geospatial Consortium, Inc.(OGC®) is seeking public comment on a Geography Markup Language (GML) XML encoding for describing the characteristics of a moving object, such as a GPS enabled car. This candidate standard provides a way of describing in simple terms the motion of an object, such as a car driving through city streets or a person walking in a park. This candidate standard fills a need for "lightweight" packets of tracking information, such as direction and velocity that can be communicated between diverse platforms and applications supporting mobile location-aware devices. The GML encoding used in this candidate standard is compatible with a wide range of other standard encodings used in other communities, such as emergency services. The candidate standard and information on submitting comments on this document are available at < <http://www.opengeospatial.org/standards/requests/69> >. The public comment period closes on August 23rd, 2010.

Source: < www.opengeospatial.org >

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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.

[Geospatial Mapping for Coastal Infrastructure Recovery in Alabama](#)

Students at Auburn University are mapping infrastructure in coastal Alabama, so that after a disaster such as a hurricane, responders can work more efficiently, and perhaps reduce recovery costs by an estimated 40 percent. The project was funded in September 2009 as a two-year grant from the U.S. Department of Commerce led by faculty, but the project is entirely student-run. The students have already collected geospatial data from 67 miles of Alabama's coastline and mapped the GIS locations of more than 9,500 infrastructure elements.

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Source: Directions Magazine [Education Tidbits](#) & CampusTechnology.com



[First image from TanDEM-X received](#)

Germany's new radar satellite, TanDEM-X, has sent its first image of the Earth. The spacecraft was created to make the most precise 3D map of the Earth's surface. The first image demonstrates that the satellite is in good working condition and is ready to team up with the TerraSAR-X satellite launched three years ago. Three-dimensional image acquisition is expected to start in January.

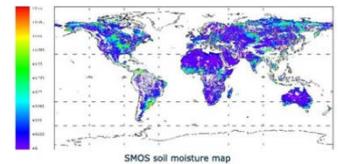
The pair of satellites will trace the variation in height across the globe with precision of better than 6 feet. The satellite will support a number of applications, such as navigational devices for military jets to allow them to fly at very low altitudes.

Source: GIS Development & [redOrbit.com Space news](#) & [Asian Surveying & Mapping](#)

[Satellite spots soggy soil](#)

The first satellite-derived map of global soil moisture has been unveiled at the Living Planet Symposium, an Earth-observation conference held in July in Bergen, Norway

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



[GIS seminar for school children](#) (South Africa)

A seminar for school children has been planned to introduce the uses of GIS and careers in the field in Braamfontein, Johannesburg. It is set to take place during August 31 - September 1, 2010, to encourage them to map the world through GIS

Source: GIS Development & [joburg.org.za](#)

[Russian Cadastre Steps into the 21st Century](#)

The Russian cadastral system took a step forward in the fall of 2009 as a new directive was put forward that included the elements cadastral products and services were expected to include. The connection between a modern cadastre and public interest was embodied within the agreement.

As noted from ECOLEX, an international environmental law database, the components of the new law included the following:

- (a) public cadastre maps for general public use;
- (b) official cadastre maps for use by official cadastre and immovable property bodies;
- (c) municipal cadastre maps for use by municipal units; and
- (d) regional cadastre maps for use by regional executive bodies

The law also includes more details such as descriptions for boundaries, constructions, residential areas etc

Source: Asian Surveying & Mapping

[25,000 Maps...and Counting](#)

In response to the need for updated topographic maps, the U.S. Geological Survey (USGS) has developed and made available a new national map series called the US Topo. Production of these maps began in earnest in June 2009. In a little over a year, the USGS National Geospatial Technical Operations Center (NGTOC) has published more than 25,000 7.5-minute cells.

Source: Directions Magazine (USGS Press release)

[Washington State \(USA\) National Park require visitors to match their vehicles to the Park's roads](#)

Traveling in the Mt. Baker-Snoqualmie National Forest this weekend? You are required to have a map of what type of motor vehicle can be used where. If your vehicle is not where it should be you will be fined. There are no longer signs noted approved vehicles. The new free map is part of new laws about traffic management.

Source: [Directions Magazine GIS Tidbits](#) and KomoNews.com

[Using Remote Sensing to Map Soil Salinity](#)

An U.S. [Agricultural Research Service \(ARS\)](#) scientist has led efforts to develop a new method for using remote sensing to assess soil salinity. This could give land managers worldwide a regional-scale tool for measuring and inventorying soil salinity in fields where salt buildup lowers crop yields. ARS soil scientist Dennis Corwin led a team that used Moderate Resolution Imaging Spectroradiometer (MODIS) imagery to assess and map soil salinity across approximately 741,300 acres of North Dakota's and Minnesota's Red River Valley. Increased soil salinity levels in this region have been linked to higher water tables caused by management and precipitation

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changes over the past 20 years. The team compared two vegetation indices: the normalized difference vegetation index (NDVI) and the enhanced vegetation index (EVI). Both indices were developed using seven years of vegetation reflectance data obtained with MODIS imagery. The team also collected soil samples from 60 fields across three counties in the Red River Valley to see how strongly field-scale soil saline levels correlated with the EVI and NDVI indices. The researchers found that 21 to 37 percent of the variability in soil salinity levels could be correlated with EVI. Then they added another factor into their estimates: whether the land qualified for the Conservation Reserve Program (CRP), a federal program that sets aside marginally productive land for conservation purposes. They found that 34 to 53 percent of the variability in soil salinity could be correlated to EVI and whether land was eligible for CRP inclusion. Results from this research, which were published in the [Journal of Environmental Quality](#) (volume 39, issue 1, January-February 2010). ARS is USDA(U.S. Department of Agriculture)'s principal intramural scientific research agency. The research supports the USDA priority of ensuring international food security.

Source: [USDA News & Events](#), Thanks to Wonkug Baek for this item

[Mapping Science In The City: London](#)

Wouldn't it be good if there was a guide to scientific culture for all the world's big science cities? Well, this map of London is a first footstep in that direction. We've started mapping all the museums (red), institutions (green), universities (turquoise), publishers (purple), business locations (yellow), and plaques (blue) related to science. There are still a few to add (particularly with reference to the final three categories), but it's ready for a play. Let us know in the comments what we've missed. (Note, also, that purely medical museums/institutions are omitted for the sake of clarity - there are just too many of them in London.)

Source: Nature.com & [GIS Development Weekly](#) (12 July)

[Satellite-based fire situation monitoring in Russia](#)

Testing of the operational ScanEx Fire Monitoring Service (SFMS) has recently started. The service has been developed at the ScanEx Research and Development Center and unlike similar systems (e.g., NASA Rapid Fire, AFIS, etc.) offers access to data of several satellites of low, middle and high resolution.

For the purpose of the project, daily satellite imagery of the Russian territory is carried out with the data received at UniScan ground complexes, deployed in Moscow, Irkutsk and Magadan. At the first stage of the service testing in July, data of only the European part of Russia will be used (within the footprint of the UniScan station, installed in Moscow).



ScanEx Fire Monitoring Service web-service is intended for operational reception of satellite data about the location of fire areas on the Russian territory and to assess the damage incurred in case of fire. Fire areas are detected based on the MODIS sensor data which is the key instrument onboard the American Terra and Aqua satellites. The sensors' can detect forest and steppe fires of 1 ha and more in size. As a result of processing geolocated images, one may delineate burning areas within a region of 1x1 km in size. The SFMS service ensures the possibility to view raster images in Google Earth, synthesised in natural colours from optical MODIS bands, which enables to assess the location of the cloud cover and the possibility to detect fires in the AOIs being monitored.

SFMS service data can be used not only for fire detection and monitoring, but also for monitoring of other targets, for example, flares on oil and gas fields.

Source: [GIS Development Weekly](#) & ScanEx News

[Mexican Gulf oil spill - Free app allows public be part of clean-up drive](#)

Trimble has launched Map the Spill, a mobile app and website that empowers Gulf Coast residents and the public to report on the oil spill. Map the Spill allows those directly and indirectly impacted by the spill to capture and chronicle what they see happening to the land, sea and wildlife in their areas, that is, users can report, upload photos, map their locations and share updates with other users. Using rich media and Global Positioning System (GPS) technology, citizens can be part of a mass data collection process. The free app is currently available on Android and BlackBerry mobile phones and will be available soon on the iPhone. Scientists, government agencies and non-governmental agencies (NGOs) that are taking part in clean-up efforts can use the data and content created and shared by Map the Spill users to assist in their efforts.

Source: [GIS Development Weekly](#) & Trimble News Release

[Massachusetts triple budget for state GIS](#)

New legislation and more funding that went into effect July 1 will enable Massachusetts to improve its GIS programme, believe GIS experts.

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Effective this month, the budget for the Massachusetts Geographic Information System (MassGIS) has increased to US\$3 million annually from US\$1 million, and will be moved into the Massachusetts Information Technology Division (ITD), which is overseeing an enterprise wide consolidation of the state's IT assets.

...

Backed by legislation, MassGIS -- which refers both to the state's GIS office and the data repository itself -- coordinates data sharing across all government levels; assembles, archives and updates GIS data; provides technical assistance; and sets standards for the management and acquisition of geospatial data. The programme formerly resided in the Executive Office of Energy and Environmental Affairs.

Source: [GIS Development](#) & Government Technology magazine (govtech.com)

Wind Speeds are on the Rise

Quarterly Wind Performance Map showing that the intensity of the wind in the second quarter of 2010 has increased significantly in large portions of the United States. This upswing in wind is in marked contrast to the depressed average wind speeds experienced during the last quarter of 2009 and extending into the first quarter of 2010. These abnormally low wind speed conditions were the result of a long-lasting El Niño effect coupled with a strong, negative North Atlantic Oscillation (NAO) event. "Swings in wind performance are common and part of the inherent nature of the resource," said Dr. Scott Eichelberger, 3TIER director of advanced applications. "It's clear that both the El Niño and NAO phenomena have weakened significantly and continue to wane. As a result, above average wind speeds have been experienced in the majority of the western US, extending from Washington state to Texas. Wind speeds in other areas of the U.S. were much closer to their long-term average."

Source: Vector 1 Media

Mobile location technologies market to cross US\$ 70 billion by 2013

With the increasing use of mobile location technologies in automotive and consumer applications, it is expected that mobile location technologies market will grow at a CAGR of about 20 per cent to cross USD 70 billion by 2013, says "World GPS Market Forecast to 2013", a new market research report. The latest industry trend of technology convergence is expected to integrate GPS with RFID, and other technologies. Also, the technology is gaining rapid acceptance in areas that were earlier untapped. Thus, the number of subscribers of GPS-enabled location-based services is anticipated to grow substantially in near future, with market revenue touching the mark of USD 10 billion by 2013. Speedy enhancements and developments in digital mapping software are presenting this positive outlook for the industry. For more [information](#).

Bicentennial map wins 1st prize at 2010 ESRI UC

The Bicentennial Map launched by the Niagara 1812 Bicentennial Legacy Council won first prize in the Map Gallery for Best Cartographic Design at the 2010 ESRI International User Conference held recently in San Diego. The map was designed by John Docker, GIS analyst with the Niagara Region, as well as a number of contributors. Officially unveiled this past February, the Bicentennial Map includes 125 points of interest organized along six trails that guide visitors through Niagara. Each trail is associated with a narrative that tells the history of the War of 1812. The map is used as an educational tool highlighting the significant role that the Niagara region played in the War of 1812. The map can be found in schools, local museums, historical attractions and tourism outlets throughout Ontario and Western New York. The featured points of interest on the map can also be found online at < www.discover1812.com >

Source: Niagara Gazette

Korea supports improvement of Land Cadastral System in Azerbaijan

Based on the Grant Arrangement signed by Korea and Azerbaijan governments, Korea International Cooperation Agency (KOICA) representing Korea government supported worth 1.5 million USD to build cadastral system in SPCSLCM (Scientific Production Centre of State Land Cadastre and Monitoring Center) under the State Committee for Land and Cartography, Azerbaijan. The decision was taken during the interim briefing session of KOICA project for the improvement of the land cadastral system in Azerbaijan. Korea Cadastral Survey Corporation (KCSC) was selected as an implementing organisation of KOICA project and implemented consulting about efficient land registration plans by dispatching four cadastral experts to Baku for three months from September 2009. From February 2010, KCSC sent nine surveyors and fulfilled field surveying in Zira settlement of Khazar Rayon (about 1,000ha), the pilot project site. On March 16, 2010, KCSC also installed GPS Pillar in Zira settlement followed by the completion of the boundary surveying by RTK-GPS and total station. Furthermore, on June 1, 2010, aerial photogrammetry was completed, and orthophoto map was drawn. Stereo-photogrammetric compilation on utilities such as building, road, electronic cable, gas

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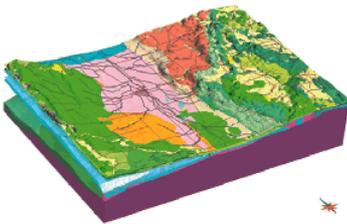
pipeline, etc is being progressed presently. When the stereo-photogrammetric compilation is completed, KCSC will draw up digital cadastral map and digital topographic map. Lastly, by combining it with results of field surveying, will complete Core data of land registration system. Finally, the project will be concluded when land registration system including hardware and software that will be supported from KOICA is installed in SPCSLCM at the second half of this year and all sorts of surveying-related data and property-related data are inputted there.

Source: Trend

Bahrain launches five new geospatial maps

Bahrain has added five new geospatial slides to its national geographic database. "The new maps specify land heights across Bahrain and provide health and demographic details, in addition to the geoid", said Dr Khalid Abdulrahman AlHidan, Geospatial IT Director, General Informatics Organisation. Bahrain has already developed over 25 state-of-the-art maps detailing Bahrain's modern infrastructure. They also form the national geospatial database including addresses, buildings, water, electrical and telecommunications networks, oil and gas canalizations and other key infrastructure features. The geospatial database, which includes maps and geoid, serves over 30 government departments round the clock. "The database is instrumental in fast-tracking decision-making and services and promoting planning", Dr Al Hidan said. The new maps are part of sustained efforts to upgrade Bahrain's database and support government departments and the private sector. The database has been developed to meet the needs of the administration as it features useful information.

Source: Bahrain News Agency



3D Visualization Communicates the Value of Geology

Geological surveying has its roots in economic development, mapping natural resources and energy sources for industry exploitation and monetary gain. The monetary aspects of this mapping effort have meant a reluctance for broader distribution beyond the difficult to interpret 2D geologic map presentation, because greater exposure has meant a greater competition for the resources that the maps uncovered.

Source: Asian Surveying & Mapping

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Articles

Three Questions Regarding Urbanization in China

[Eric J. Heikkila](#) :International Initiatives for the School of Policy, Planning, and Development at the University of Southern California

Abstract

The three questions addressed in this article pertain, respectively, to the contributing factors, outcomes, and policy interventions associated with urbanization in China. Contributing factors include transition to a market-driven economy, political devolution, demographic changes, globalization, and technological change. These are unravelled with care, with a conclusion that embedded markets are the central contributing factor, with globalization and political institutions as important helpmates. Regarding urbanization outcomes, the evidence reviewed supports the convergence hypothesis in broad terms, but with ample evidence of hybridity, resulting in urbanization with Chinese characteristics. The article concludes with a call for a more balanced approach to urban policy interventions in China, whereby existing spatial planning perspectives are complemented by market-based perspectives.

Source: <http://jpe.sagepub.com/content/27/1/65.abstract>

Evaluating effectiveness of high resolution satellite imagery for natural resource mapping

by Neha Midha & Pradeep K. Mathur

Abstract

The availability of high-resolution Indian satellite data from IRS P-6 LISS IV is expected to have a significant impact on the mapping potential of varied natural and man-made resources. The present study is aimed to evaluate the efficacy of IRS P-6 LISS IV in natural resource mapping for a wildlife protected area. A comparison of qualitative and quantitative assessments of IRS P-6 LISS IV data with Landsat ETM+ and IRS 1D LISS III data sets was attempted for a part of Katarniaghat Wildlife Sanctuary in India. The boundaries of polygon

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features, linear features (roads) and contrast with the surroundings were more precise on LISS IV data as compared to other data sets. It was found that 82% and 112% more forest roads could be delineated with LISS IV data compared to LISS III and ETM+ data sets, respectively. The level of vegetation classification and accuracy improved as well with LISS IV data compared to LISS III data. The study concluded that the LISS IV is better source of data for natural resource mapping over commonly used satellite imagery and can serve the diverse application needs of the protected area managers

Source: GIS Development

[Standards in policy: Maximise value of data](#) by [Steven Ramage](#), Open Geospatial Consortium (OGC)
Governments and large enterprises routinely create and implement policies that help them maximise the value of their information systems and data. They naturally want to leverage their past investments and plan their future investments in ways that maximise the value to their organisations. They want to reduce technology risk as a software lifecycle management issue. This article explains why OGC and ISO standards must be taken into account in designing such policies.

Source: GIS Development Weekly (12 July)

Article of the Month - July 2010

[The Difficulties in Using Tide Gauges to Monitor Long-Term Sea Level Change](#)

by John HANNAH, New Zealand

SUMMARY

Climate change has a variety of important impacts, one of which is reflected in sea levels. Indeed, long term rising trends in global sea levels are often used to corroborate the assertion of long term climate change. When tide gauge records are examined in order to determine the long-term trends in sea level it is typical for a single number representing the derived trend, to be quoted. However, the problems in deriving such numbers are rarely, if ever, discussed. Indeed, there appears to be a widespread ignorance as to the fragility of tide gauge records and hence the accuracy of derived long-term sea level trends. This paper uses specific examples from New Zealand to illustrate and explain the problems that exist in deriving an accurate figure for the eustatic changes in sea-level at a tide gauge site. It highlights the importance of assessing accurately the influence of anthropological factors, changes in tide gauge datums, and geophysical effects. These factors, which can compromise or even completely invalidate a record, must be able to be assessed over the entire history of the tide gauge record (often 100+ years). This paper, after exploring these factors and their potential influence, concludes by making recommendations on procedures to be followed if we are to leave future generations better quality sea level data than is often available at present.



[Remote Sensing and Urban Planning – A Common Future?](#) by H. Taubenböck & S. Dech

Urban planning can achieve many gains through closer connection to the remote sensing community and use of modern remote sensing technologies. While some projects, such as the European Urban Atlas extensively use remotely sensed data, the gradual commercialization of satellite or airborne earth observation since the 1970s and its prospects on performance and effectiveness have greatly expanded.

Earlier predictions on uptake and use were probably far too optimistic. This led to some disappointments where projects were not realised. In consequence, remote sensing data and products often played, at least in Germany, a secondary role. Today urban planners confirm that remotely sensed data and derived products are only used rudimentarily in their daily routine. For this reason it is important to demonstrate the value of today's earth observation technologies for urban planning.

Source: Vector 1 Media

[Plan4all - European Network of Best Practices for Interoperability of Spatial Planning](#)

by Flavio Camerata, Giuseppina Pellegrino, Runar Bergheim, Peteris Bruns, Karel Charvát and Tomáš Mildorf
Plan4all is a European project co-funded by the Community programme eContentplus. The main aim of the project is to harmonise spatial planning data and related metadata according to the INSPIRE principles. The Plan4all project should contribute to the standardisation in the field of spatial data from spatial planning point of view. Its activities and results will become a reference material for INSPIRE initiative; especially for data specification.

Source: Vector1Media

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Books and Journals

GIS Development is now publishing a monthly conference newsletter: [the Geospatial Milieu](#)

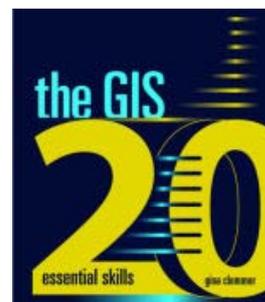
The Editor has requested us to communicate our impression and ways of improving this first attempt at a newsletter aimed at informing, networking and provoking ideas in the milieu geospatial. Unfortunately the Editor has neglected to include a means of passing on to our readers information enabling them to subscribe.

[The GIS 20: Essential Skills](#)

Geographic information system (GIS) is a powerful tool that can be challenging to navigate as a beginner, especially when you're faced with a deadline. Inspired by a poll of 500 GIS practitioners, *The GIS 20: Essential Skills* is an easy-to-understand guide that emphasizes the top twenty skills most people need to master to be successful using GIS. A quick and comprehensive introduction to fundamental GIS skills, this book includes a data CD for completing the exercises. Written for professionals with no time for classroom training.

Gina Clemmer is the president of New Urban Research, Inc., a research and training company in Portland, Oregon. She has spent the better part of the last decade training thousands of new GIS users across the country. The company's most popular workshop, *Mapping Your Community: An Introduction to GIS and Community Analysis*, has been taken by more than 15,000 working professionals.

ISBN: 9781589482562 2010 156 pages \$39.95



Recent [publications](#) from the Netherlands Geodetic Commission:

[Regional gravity field modeling with radial basis functions](#) by Tobias Wittwer

[Regional gravity field modeling using airborne gravimetry data](#) by Bas Alberts

[Identification and Modeling of Sea Level Change Contributors](#) by B Wouters

[Estimating Sea Floor Dynamics in the Southern North Sea to improve Bathymetric Survey Planning](#) by Leendert Louis Dorst

[Assessing Spatial Data Infrastructures](#) by Lucasz Grus

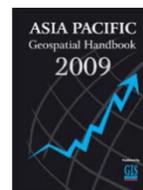
[SDI Convergence. Research, Emerging Trends, and Critical Assessment](#) (B. van Loenen, J.W.J. Besemer, J.A. Zevenbergen (Editors)

[Core Spatial Data](#) NCG seminar on the occasion of the 25th year jubilee of Mathias J.P.M. Lemmens at TU Delft (edited by Peter J.M. van Oosterom)

[Asia-Pacific Geospatial Handbook 2009](#)

[One Scotland: One Geography: One Information Network: Creating Scotland's Spatial Data Infrastructure: Cookbook 1 - How to serve a Scottish SDI and INSPIRE conformant Web Map Service](#)

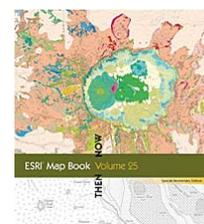
This Cookbook is the first of a series of guidance manuals/toolkits which will define the appropriate standards for delivery of spatial data as web services, and provide guidance on the technology options that are currently available to deliver these services. These guidance manuals are being developed by Scottish Government in partnership with the British Geological Survey. [Available for download](#) (3.4mB)



[SERVIR-Africa community news - June 2010](#)

[Esri Map Book Encapsulates 25 Years of GIS Development](#)

Pioneering GIS users championed the new technology while typically facing limited resources and open skepticism. Their perseverance and professionalism over the years have guided smart growth, preserved environmental assets, and fostered increased public participation in civic matters. Esri Map Book, Volume 25, celebrates the evolution of GIS and recognizes the forward-thinking people and organizations that have demonstrated a lasting commitment to geospatial solutions.



[Geoinformation for Disaster and Risk Management - Examples and Best Practices](#) (PDF 6.5 mB download) – Alternative download [site](#).

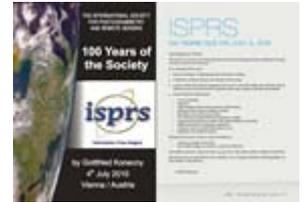
A new booklet published on July 2nd by the [Joint Board of Geospatial Information Societies](#) (JBGIS) and the [United Nations Office for Outer Space Affairs](#) (UNOOSA) outlines the

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potential uses of geo-information technologies to reduce the impact of natural or manmade disasters and risks. "Geoinformation for Disaster and Risk Management - Best Practices and Examples" brings together concise scientific contributions from experts around the world and creates a decision support forum based on their knowledge. The articles in the booklet cover natural disasters like earthquake, flood, volcano outbreak, tsunami, landslide, dust storm and wildfire, as well as societal issues like health care, refugee camps, urban sprawl and traffic infrastructure security. Case related regional studies are complemented by presentations of global information systems.

[ISPRS - 100 Years of the Society](#) by Gottfried Konecny, published July 4, 2010, Vienna, Austria (11 mB PDF download)



[GIS Development has been rechristened Geospatial World, the Geospatial Industry Magazine.](#)

Beginning with the August issue.

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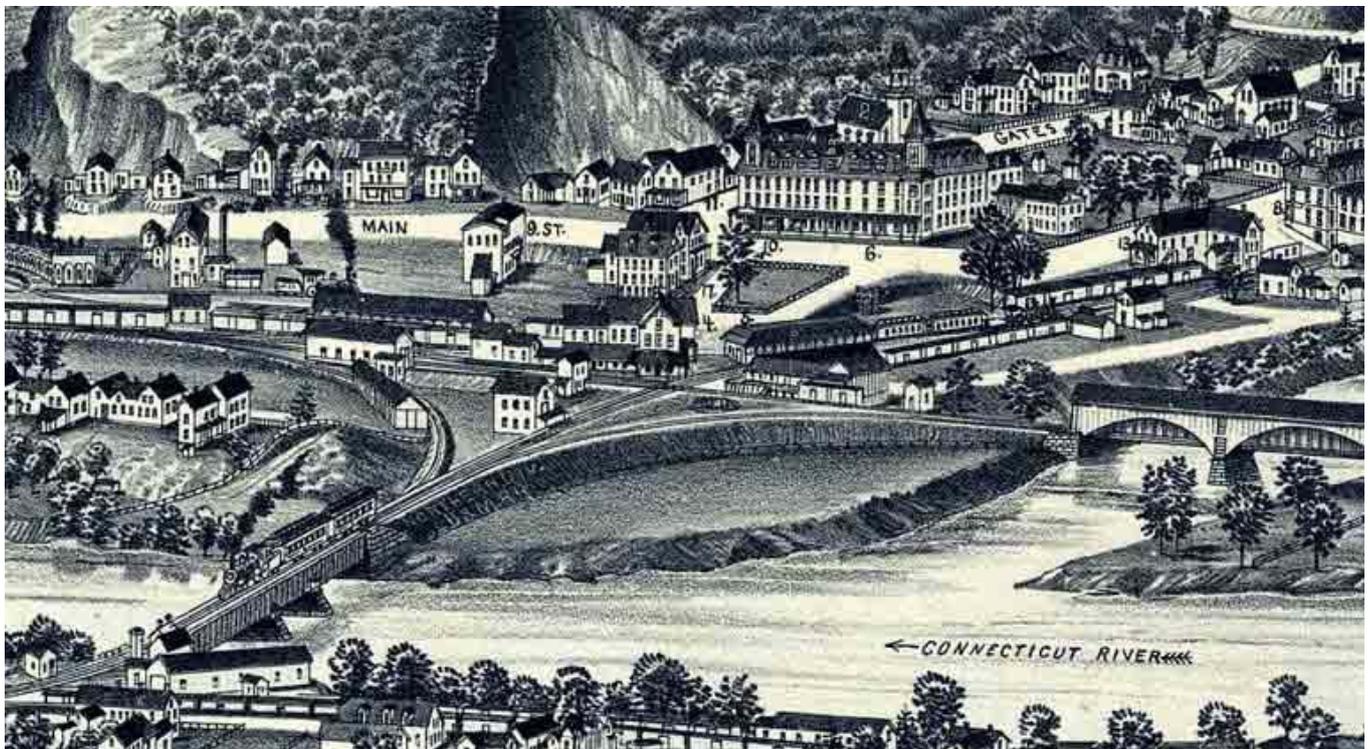
Just for Fun!

What If Captain Cook Made an Atlas With Geomatics Technology Today?

"Why don't we have Digital Building Atlases? Why don't we have Digital Health Atlases that couple maps into economics, outcomes into funding together with environment into legislation? If you were Captain Cook standing on the bow of a ship, knowing all the geotechnologies of today are in your cabin behind you, what would you be thinking?"

Source: [Vector1media](#)

[Old Maps of Vermont](#) and [Old Maps](#) are two websites (among several) run by David Allen.



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[Whose Map is it? new mapping by artists](#)



Whose Map is it? new mapping by artists currently on view at the [Institute of International Visual Arts in London](#) (Iniva) offers creative alternatives to a stale representation of global organization. Capitalizing on the potentially transformative nature of mapping, nine contemporary artists deconstruct conventions in favor of introducing previously 'off the map' concepts. *Whose Map is it?* is inextricably engaged with the larger theme of globalization for the way that this present condition problematizes the traditional two-dimensional nation-state map structure. Presenting new and recent work in diverse media, the exhibition offers freshly layered, content-wise approaches that creatively reposition

map-making to more fully represent today's mobile world.

Source: [GIS Development Weekly](#) (July 12) & [DailyServing.com](#)

[The "Antiquated" County Surveyor?](#)

In Pennsylvania, the position of County Surveyor was abolished decades ago. Elsewhere, some states do still have County Surveyors - yet where still in use, it has in some instances become politicized, or may have duties which are either murky, inconsistent from one place to another, or even a position without any duties. Many consider the position "antiquated".

Source: Dave Smith's [Surveying, Mapping & GIS blog](#)



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Training Opportunities

[Master's Program in Photogrammetry and Geoinformatics at Stuttgart, Germany](#)

International Master's Course Photogrammetry and Geoinformatics offered by Hochschule fuer Technik Stuttgart, Germany

Tuition and Fees - 613 Euro for each semester

Please contact with Prof. Dr. D. Schroeder, phone +49 711 8926 2612, fax +49 711 8926 2556

[email](#)

[NEW Master's, Diploma & Certificate Courses in Cartography & Mapping](#)

The Department of Geographical & Earth Sciences, University of Glasgow, UK has added TWO new MSc courses to its **Post-Graduate Taught Programme for Cartography and Mapping**:

1. Applied Population & Statistical Mapping 2. Landscape Monitoring & Mapping

Existing courses include: Geoinformation Technology & Cartography, Geospatial & Mapping Sciences

Details and contact information can be found at: <http://www.ges.gla.ac.uk:443/degrees/postgraduate/courses>

The Courses begin in SEPTEMBER 2010. A limited number of Scholarships will be available for all of these programmes.

Master's courses may be available full or part time, it may also be possible to study for a Postgraduate Diploma or Certificate, or take specific courses or sub-units as CPD.

[United Nations University and ESRI to Collaborate on GIS Research and Training](#)

ESRI and United Nations University (UNU) recently approved a memorandum of understanding (MOU) at the university's headquarters in Tokyo, Japan. They will collaborate on research, create Centres of Excellence, promote the exchange of graduate students and provide GIS training opportunities within and by UNU.

Source: GISLounge

[The New Professional Spatial Information Programs at the University of Melbourne](#)

Master of Engineering (Geomatics)

Master of Spatial Information Science

This item was extensively covered in [Volume 7, issue 3 \(March 2010\)](#) of the SDI-AP newsletter and is here reprinted in abbreviated form.

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[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 program 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. The program offers in-service distance education for professionals interested in GIS and Geoinformatics. Courses towards the MSc were launched with an on-site workshop in 2009 and lead students to obtain recognised 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

- 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 first come, first 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. The seminars commenced 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 organisation 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

[FOSS 4G 2010 Workshops - Barcelona, Spain. – Workshop webpage](#)

This item was extensively covered in [Volume 7, issue 3 \(March 2010\)](#) of the SDI-AP newsletter and is here reprinted in abbreviated form.

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September 6 Workshops (Monday afternoon, 15-18h)

- W-01: Web mapping with GeoServer
- W-02: gvSIG 1.9 user workshop
- W-03: Setting up an OpenStreetMap rendering toolchain
- W-04: Introduction to PostGIS
- W-05: Introduction to the Mapbender geoportal framework
- W-06: Solid web mapping with Python
- W-07: Practical introduction to ZOO, the powerful WPS platform

September 7 Workshops (Tuesday morning, 9-12h)

- W-08: Getting started with MapServer
- W-09: Quantum GIS and PostGIS: Solving spatial problems and creating web-based analysis tools
- W-10: FOSS4G routing with PgRouting tools, OpenStreetMap road data and GeoEXT
- W-11: Working with OpenLayers
- W-12: GeoNetwork for dummies, or how to setup an SDI in 3 hours
- W-13: Geospatial for java
- W-14: Practical introduction to GRASS

FOSS 4G 2010 Tutorials - Barcelona, Spain. – [Tutorials webpage](#) (7 – 9 September)

Source: [FOSS4G 2010 press release 5](#)

[Transparency in Land Administration - \(2 weeks\)](#) - Ardhi University TANZANIA (18 – 31 November, 2010)

Course objectives:

Transparency in land administration is a critical factor and a precondition for enhanced good governance. It is also a major step towards elimination of corruption in land administration. The objectives of this course are;

- To share innovative tools to achieve tenure security and transparency in land administration;
- To enhance participants' awareness and understanding of transparency, disclosure management and flow of information in land administration matters; and
- To inculcate knowledge on tools required to engender and operationalise and monitor transparency in land administration.

[5th Thailand GIS for Disaster Risk Management Course](#) Bangkok, Thailand, 16-27 August

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Funding Opportunities, Awards, Grants

[Sol Katz Award - Call For Nominations](#)

The Open Source Geospatial Foundation would like to open nominations for the 2010 Sol Katz Award for Geospatial Free and Open Source Software.

The Sol Katz Award for Geospatial Free and Open Source Software (GFOSS) will be given to individuals who have demonstrated leadership in the GFOSS community. Recipients of the award will have contributed significantly through their activities to advance open source ideals in the geospatial realm.

Nominations for the Sol Katz Award should be sent to SolKatzAward@osgeo.org with a description of the reasons for this nomination. Nominations will be accepted until [23:59 UTC on August 20th](#). A recipient will be decided from the nomination list by an OSGeo designated selection committee.

Source: [Open Source Geo](#)

[Ecohealth Emerging Infectious Diseases Research](#)

[Eco EID: Ecohealth Emerging Infectious Diseases Research Initiative: Call for Proposals for Southeast Asia](#)

In collaboration with CIDA and AusAID, the International Development Research Centre (IDRC) Ecohealth team has announced the Ecohealth Emerging Infectious Diseases Research Initiative (Eco EID) Call for Proposals for South East Asia.

Research funded through the Eco EID initiative's Call for Proposals in South East Asia will apply an ecohealth approach to improve the understanding of the environmental, societal, and economic interactions associated with development that predispose the region to disease emergence and spread. It will also assist in the development of intervention strategies that sustainably prevent or limit the spread of emerging infectious

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diseases.

Submission date for Letters of Intent: August 3, 2010

[Trimble Student Paper Competition for Surveying](#)

Trimble is holding its 2010 Surveying Student Paper Competition. The winning student author will have the opportunity to present their survey application paper at Trimble Dimensions 2010 in Las Vegas, Nevada. The winner will receive a trip to the conference plus 3 nights' accommodations to take part in Trimble's internationally recognized conference with surveying professionals from around the world. In addition, the winning student's school will also receive a Trimble® R8 GNSS System.

How to Enter: (Full details at the [Competition web page](#))

To enter, submit your completed entry form below with a written paper of 1500 words or more. The paper must describe an application and use of Trimble Survey equipment. All papers must be submitted in the English language, in Microsoft Word format.

All entries must include the student's name, student's address, student's email address, University name and address in order to be eligible for the competition.

Entries will be accepted from June 14th until August 15th, 2010. Judging of entries will occur from August 16th, 2010 to September 21st, 2010. The announcement of the winner will be September 22nd, 2010.

[Wanted: Innovative Ideas for Applications in Satellite Navigation €20,000 grand prize](#)

The seventh European Satellite Navigation Competition (ESNC) has commenced its search for applications in satellite navigation at <www.galileo-masters.eu>. Until the end of July, innovators all over the world will have the chance to develop their ideas for new products and services based on satellite positioning.

[ESRI's Mashup Challenge Winners Announced](#)

Links to the winning mashups and related videos can be found at <http://www.esri.com/apimashup>.

Source: [Directions Magazine](#)

[Asia - RS and GIS Scholarships](#)

Remote Sensing and GIS field of study at Asian Institute of Technology (Thailand) has recently announced scholarships for this coming August 2010 semester. These scholarships will be granted to students who have excellent study records. Please take your chance to apply for this scholarship.

[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 the URL link above.

Source: [OSGeo](#)

[NAVTEQ Global LBS Challenge](#)

Registration for all Regions is now CLOSED

Registration for all five regions is now closed. You can view the remaining key dates for each region on the 2010 [LBS Challenge calendar](#). View photos and videos from the award ceremony of each region on the [2010 LBS Challenge Gallery](#).

[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

[ICIMOD Photo Contest on Mountain Biodiversity](#)

ICIMOD is organising a Photo Contest on 'Mountain Biodiversity' to mark the International Year of Biodiversity 2010 and raise awareness of the vital role that mountain biodiversity plays in sustaining life in the Hindu Kush Himalayan region and beyond. The themes of the competition reflect the theme of the [International Year of Biodiversity 2010](#) 'Biodiversity is life. Biodiversity is our life', and the theme for the [International Day for Biological Diversity 22 May 2010](#) 'Biodiversity, Development and Poverty Alleviation'.

Regional Scope

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To qualify for the competition, images must be taken within the Hindu-Kush Himalayan portion of ICIMOD's regional member countries - Afghanistan, Bangladesh, Bhutan, China, India, Myanmar, Nepal, and Pakistan - as shown in the [ICIMOD regional map](#).

ESRI Australia supports Spatial Technology in Schools competition

ESRI Australia is proud to once again support the annual Spatial Technology in Schools competition. The competition sees students from across Australia use GIS technology in challenging, informative and fun ways to assist in solving a problem from any area of the curriculum.

The competition is conducted in each State and Territory of Australia, and New Zealand, with a prize awarded for the best project in each region. The winners of each region are then judged to determine the Regional Winner.

ESRI Australia is providing free ArcGIS software licences for schools entering in the competition. By using the same software that is used by millions of GIS professionals around the world every day, students will gain real insights into how GIS is used to solve real-world issues.

Participating schools can request their free licence by visiting <www.esriaustralia.com.au/esri/6176.html> or by contacting ESRI Australia Connect via email at <connect@esriaustralia.com.au>.

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Employment Opportunities

Calling for volunteer mappers for West Africa

The MAPA project (Mapping Africa's Protected Areas) < <http://www.mapaproject.org/> > now is ready to tackle West Africa. The time has come for MAPA to recruit some more mapping volunteers, approximately 20 2-person teams to drive MAPA vehicles through West Africa between October 2010 and July 2011. This is very exciting for MAPA and means that Phase 2 is really underway.

The MAPA Project aims to make Africa's conservation areas more visible, accessible and secure by creating a digital archive of the boundaries, roads and infrastructure for over 1,000 conservation areas.

Mapping volunteers are unpaid but the following expenses are covered:

- budget accommodation (camping unless unavailable),
- fuel,
- all vehicle repairs
- border fees, ferries, park fees, etc
- Basically everything except personal expenses

The main mapping expedition will consist of two cars working together for 10 months. MAPA has found that most people are not able to sustain more than 4-6 weeks of mapping. Therefore, 20 teams of 2 people (2 cars for 10 months) are sought. Although some teams will do more than one shift, others will fall out at short notice. At the MAPA website, click on the "Volunteer Now!" < http://www.mapaproject.org/?page_id=24 > menu option to read more.

Go to this link to download the Volunteer's Application Form

< <http://www.mapaproject.org/wp-content/2008/02/20100614-volunteer-application.doc> >

Go to this link to download last year's volunteers' handbook

< <http://www.mapaproject.org/wp-content/2008/02/20090512-procedures-and-technical-settings.pdf> >

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> >

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

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Conference Proceedings

[Live webcasts of the Second Open Source GIS Conference - 22nd June 2010](#)

[gvSIG Desktop and gvSIG Mobile workshops](#)

The gvSIG workshop that was held at OSGIS 2010 (Nottingham - United Kingdom) in June, is available in the gvSIG website. It contains a course about [gvSIG Desktop](#), and another one about [gvSIG Mobile](#).



[Report on the Fourth Central Asia GIS Conference](#)

[The 16th Session of the Asia-Pacific Regional Space Agency Forum \(APRSAF-16\)](#)

The [24th FIG International Congress 2010](#) (Sydney, 11-16 April) has now concluded and the papers from the [Technical Proceedings](#) and the [Meeting Programme](#) are now available.

[2010 ESRI Developer Summit 22-25 March](#)

View the [plenary demos](#) and [tech session videos](#). More technical information is going to be posted so check back for this additional information.

Source: [ESRI](#)

[5th gvSIG Conference Proceedings available](#)

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

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

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

[2010 NSGIC Midyear Conference Archive Published](#)

The National States Geographic Information Council (NSGIC) hosted the 2010 NSGIC Midyear Conference on March 7-10, 2010 in Annapolis, Maryland, USA. The NSGIC is an organization committed to efficient and effective government through the prudent adoption of geospatial information technologies (GIT). The archive of [PowerPoint presentations](#) and other materials from the 2010 NSGIC Midyear Conference, is now available. The archive includes the [final on-site agenda](#) (PDF) as well as the final attendance roster (PDF) from the conference. [NSGIC's on-line conference](#) archives include materials from the 1999 Midyear conference to the present.

Source: <http://news.nsgic.org/> & Wonkug Baek

[The Australian and New Zealand Map Society Conference 2010](#)

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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.

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

Date	Location	Event
August 2010		
2 – 4 August	Brisbane, Australia	GITA 2010 - Australia and New Zealand GITA 2010 is the premier geospatial technologies conference in Australia and New Zealand. This year's program will focus on "Smarter infrastructure for a sustainable future" with particular focus

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		<p>on water reform, smart grid, critical infrastructure protection and emergency management, transportation and safety, and telecommunications and will feature the launch of two world class technology breakthroughs!</p> <p style="text-align: right;">CONTACT</p>
9 – 12 August	Kyoto, Japan	<p>ISPRS Commission VIII symposium International Society for Photogrammetry and Remote Sensing Contact: (Ms. Kumiko Sekiguchi, Ms. Juri Hikiba) The deadline for this full paper submission was extended to June 6</p>
17 August “NEW”	Wellington, New Zealand	<p>Workshop: Shaping the Geospatial Future of New Zealand The Spatial Industry Business Association is hosting a workshop to bring together people from across the geospatial sector to present and discuss how they are working to further realise the value of geospatial information. The workshop will take the form of a series of 10-minute presentations to outline how each organisation is working in the geospatial market. That will be followed by a panel discussion where each organisation will be given an opportunity to describe how they are setting out to address a specific challenge. To facilitate the Q&A session, please feel free to submit your questions in advance to the Secretary of SIBA NZ, Mike Pownall.</p>
23 August – 1 September	Bangkok, Thailand	<p>Call for Applications: Workshop on Asian Coastal Cities The Southeast Asia START Regional Center and the East-West Center has issued a Call for Applications for an upcoming International Workshop to address the risks of flooding in Asian Megacities. With support from the Asia-Pacific Network for Global Change Research (APN) the Workshop on Climate Change Vulnerability Assessment and Urban Development Planning for Asian Coastal Cities will be held on August 23 to September 1. The Workshop objectives include: 1) The development of capacity on the part of urban planners, managers, and researchers in climate change risk and vulnerability assessment and its application to urban development planning and governance. 2) The promotion of locally led risk and vulnerability research in Asian coastal cities that is linked to user needs. 3) The development of partnerships between researchers, planners and policy makers that encourage communities of knowledge for vulnerability assessment in each participating city. The Workshop invites researchers, urban planners and managers, practitioners, professionals and policymakers interested in and working on topics related to the workshop topics to submit an Application to the Southeast Asia Regional Center by 1 March 2010. The application must include: A curriculum vitae for each applicant A written letter of interest describing the relevance of the workshop to the applicant/team’s academic or professional work and expected benefits of participation All materials should be submitted in English For more information, review the Call for Applications or contact..</p>
25 – 7 August	Hue City, Vietnam	<p>Asian Symposium on Disaster Impact and its Assessment in Asia The Asian Symposium on Disaster Impact and Its Assessment in Asia is being organized under the aegis of the European</p>

		<p>Commission funded FP6 MICRODIS Integrated Project (www.microdis-eu.be).</p> <p>Disasters in Asia have been severely affecting the local capacities. This requires multi-prong actions for prevention, mitigation, assessment, and management in an enabling environment - with the goal of sustainability. The multi-dimensional nature of disaster impact requires multi-disciplinary and multinational cooperation, which is the primary goal of the MICRODIS Project. Therefore, the Asian symposium is aimed at:</p> <ol style="list-style-type: none"> 1. Bringing together multiple stakeholders: academics, bureaucrats, researchers, professionals, UN representatives, NGOs and others to discuss current issues on disaster impact and assessment. 2. Presenting multi-country, multi-discipline scenario on disaster impacts that emerged out of MICRODIS empirical studies. 3. Sharing evidence-based knowledge and methodologies that facilitate the development of prompt operational strategies for the future. <p>Abstract deadline & full paper submission date HAS passed.</p>
September 2010		
1-3 September	Paris	<p>PCV2010</p> <p>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.</p> <p>Important dates: 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. Visit the Website for further details.</p>
1-3 September "NEW"	Seoul, Korea	<p>SMART KOREA 2010</p> <p>The Korean government will host "2010 Smart Korea", the biggest geospatial symposium and exhibition in South Korea, on September 1-3, 2010 at Korea International Exhibition Center (KINTEX).</p>
6-9 September	Barcelona, Spain	<p>FOSS4G 2010</p> <p>A listing of <i>Abstracts & Presentations</i> is available. Aug 2010, Completed program available 6-7 Sep 2010, FOSS4G Workshops – Workshop webpage 7-9 Sep 2010, FOSS4G Presentations and Tutorials - webpage 10 Sep 2010, FOSS4G Code Sprint Contact Conference Chair for further details (Lorenzo Becchi)</p>
20-3 September	Gaeta, Italy	<p>The 10th Anniversary International Scientific and Technical Conference "From imagery to map: digital photogrammetric technologies".</p> <p><i>More information about the conference will be available soon on the official site of the Conference.</i> Contact</p>
22 September	Washington, DC	<p>LI GeoCloud 2010</p> <p>The first conference dedicated to geospatial cloud computing Call for presentations now open</p> <p>If you would like to submit a presentation for consideration, please use our submission form to provide an outline of the topic you would like to present. Preference will be given to sponsors of the conference.</p> <p>Registration for the conference will be \$595 but early registration will be held June 1 through August 30. The cost for early registration will be just \$495.</p>

22–6 September	Toyama, Japan	Asia-Pacific Radio Science Conference 2010 (AP-RASC10) Contact
28-30 September	Vienna, Austria	Geospatial intelligence Summit Key topics: <ul style="list-style-type: none"> • Developing an effective GIS strategy • How to maximise co-operation across national defence and security organisations • How to create a national spatial data infrastructure • Moving from geo-information to geo-intelligence • Developing an open enterprise architecture • Achieving true interoperability on a national and international level • Meet the needs of multiple stakeholders • Learn about the evolving relationship between military, intelligence and civilian agencies
28 September 1 October “NEW”	Orlando, Florida	GIS Pro 2010 URISA's 48th Annual Conference
29 - 30 September “NEW”	Kuala Lumpur, Malaysia	Geospatial Defence and Intelligence Asia 2010
30 September 1 October	Kiev, Ukraine	IV Ukrainian Scientific and Practical Conference “National Mapping: State, Problems, and Development Prospects” (National Mapping - 2010) Paper deadline: 30 June 2010 Registration deadline: 15 September 2010 Organized by: State Service of Geodesy, Cartography and Cadastre of Ukraine, Institute of Geography of National Academy of Sciences of Ukraine, Ukrainian Cartographic Association and GIS-Association of Ukraine Sessions. The following topics will be addressed: <ol style="list-style-type: none"> 1. National infrastructure of geospatial data. 2. Remote sensing of the Earth. 3. Thematic and atlas mapping. 4. Geographical information systems (digital cartography, cartographical information in Internet, digital maps in navigation, navigating systems). 5. The copyright in cartography. 6. History of cartography. Conference working languages - Ukrainian, Russian, English. The presented papers will be published in the proceedings of the Conference. Registration payment: 20 Euros includes entry to all sessions, proceedings materials, meals, coffee breaks. For all questions: contact: Oksana Degtyar or < odegtyar@rambler.ru > or Victoria Molochko ,
October 2010		
4 – 6 October	Katmandu, Nepal	Benefiting from Earth Observation Contact: symposium2010@icimod.org
5 – 7 October “NEW”	Cologne, Germany	InterGEO 2010
10 – 15 October	Songdo Convensia, Incheon, Republic of Korea	SPIE Asia-Pacific Remote Sensing Monitoring the Human Impact on the Natural Environment of the Coastal Zone 10-15 October 2010
12 – 14 October	Bonn, Germany	UN-Spider Workshop on Disaster Management & Space

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		Technology Contact: Ms. Natalie Epler, e-mail: natalie.epler@unoosa.org
19 – 22 October	Singapore	GSDI 12 World Conference – Realising Spatially Enabled Societies In conjunction with the 16th PCGIAP Annual Meeting . ALSO: there will be a full day pre-conference workshop for PhD students pursuing research on SDI related topics which will be similar to the highly successful workshop held in conjunction with GSDI 11.
24-27 October	Stellenbosch, Cape Town, South Africa	22nd International CODATA Conference Theme: Scientific Information for Society: Scientific Data and Sustainable Development Abstract deadline is now closed: 30 April 2010.
25-29 October	Addis Ababa, Ethiopia	8th International Conference of the African Association of Remote Sensing of the Environment (AARSE)-2010 Theme: Earth Observation for Africa's Development Agenda 2010 Abstract deadline: 30 April 2010. Send to Final paper submission: 1 September 2010. The four major scientific sub-themes of the conference are: <ul style="list-style-type: none"> • Food and Water Security • Energy Resources • Disaster Risk Reduction • Marine and Coastal Management Conference sub-themes of a more operational nature are: <ul style="list-style-type: none"> • Capacity-building: achievement and challenges • Spatial Data Infrastructure, SDI • Space Policy in Africa • National and regional programs and projects • Products
November 2010		
31 October - 3 November	Denver, Colorado	US - GSA Annual Meeting
3-4 November	Berlin, Germany	5th 3D Geoinfo Conference
5 – 6 November	Kaohsiung, Taipei	ASIA GIS 2010 Contact us The theme for this conference is GIS and Cloud Computing . Cloud computing is a hot topic in 2010 and GIS is moving to the cloud computing paradigm. Invited keynote speakers will present the future trend of cloud computing and its application in GIS. Key Dates: Deadline for Early Bird Registration 31 August Paper Submission 31 August
8 – 11 November	London	The 5th International Conference for Internet Technology and Secured Transactions (ICITST-2010) Technical Co-Sponsored by IEEE UK/RI Communications Chapter, Contact IMPORTANT DATES Early Registration Deadline: January 01 to July 31, 2010 Late Registration Deadline: July 31 to November 08, 2010
9 – 11 November	Taipei, Taiwan	2010 The 7th International Symposium on Cadastral Survey . Main Topic: The Development of Cadastral Survey in New Generation. Contacts: Geographic Information Systems Research Center of Feng Chia University. Email: joy@gis.tw
15 – 19 November	Orlando, Florida	ASPRS/CaGIS 2010 Specialty Conference in conjunction with a special joint meeting of ISPRS Technical Commission IV &

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		<p>AutoCarta 2010</p> <p>Important Dates</p> <p>May 1, 2010 - Workshop proposals due</p> <p>May 12, 2010 - Abstracts for papers and posters due</p> <p>June 15, 2010 - Notice of acceptance of all proposals</p> <p>August 15, 2010 - Presenter registration due</p> <p>September 13, 2010 - Final papers due (to be considered for publication)</p>
23 – 25 November “NEW”	Cape Town, South Africa	Map Africa 2010
November - Dec 2010		
Date not fixed	Melbourne, Australia	17th Asia Pacific Regional Space Agency Forum
28 November – 3 December	Sydney Australia	<p>OGC's Meeting on Business Value of Geospatial Standards</p> <p>The Open Geospatial Consortium (OGC) has announced the event, Deriving business value from geospatial standards to be held on June 17, 2010 at the NOAA Silver Spring offices in Maryland. OGC invites government officials, policy makers, senior managers, as well as sales and marketing professionals from across the industry to attend a series of business meetings during the event. The event is part of the OGC's quarterly Technical Committee and Planning Committee meetings. Steven Ramage, OGC's Executive Director, Marketing and Communications said, "I would like to invite professionals to attend a one-day business session at a TC/PC meeting. This invitation is open to OGC members and non-OGC members who want to learn more about the business value of geospatial technology. Silver Spring is the first such meeting and more one-day business sessions are planned for the OGC meetings in Toulouse, France in September and in Sydney, Australia in November-December 2010."</p>
29 November – 3 December “NEW”	Tunisia	Fifth Session of the International Conference Geotunis 2010
30 November – 1 December “NEW”	The Hague, Netherlands	European LiDAR Mapping Forum Conference and Exhibition
1 – 3 December	Valencia, Spain	<p>6th gvSIG Conference: Knowledge for change</p> <p>The call for papers is now open. As of today communication proposals can be sent to the email address where they will be evaluated by the scientific committee as to their inclusion in the conference program. There are two types of communication: paper or poster. Information regarding to regulations on communication presentations can be found in the reports section. Abstracts will be accepted until September 21st.</p>
December 2010		
22 December	Kyoto, Japan	Japan - Topic Maps Japan 2010
January 2011		
18-21 January	Hyderabad, India	<p>MapWorld Forum 2011 Contact</p> <p>NOTE NAME CHANGE TO:</p> <p>GEOSPATIAL WORLD FORUM 2011</p>
February 2011		
7 – 9 February “NEW”	New Orleans, USA	11th International LiDAR Mapping Forum 2011
April 2011		

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10 – 15 April	Sydney, Australia	34th International Symposium on Remote Sensing of Environment
November 2011		
14 – 18 November	Santiago, Chile	UGI 2001 International Geographic Union “Regional Geographic Conference” Contact Brochure & Call for Papers
August 2012		
24 August – 3 September	Melbourne, Australia	XXII International Society for Photogrammetry & Remote Sensing Congress Email: isprs2012@icms.com.au
2014		
	Malaysia	Malaysia will be hosting the (International Federation of Surveyors) FIG Congress in 2014. The decision was taken at the recently concluded FIG Congress 2010 in Sydney, Australia.

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