Spatial Data Infrastructure Asia & the Pacific Newsletter

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Spatial Data Infrastructure – Asia and the Pacific (SDI-AP) is a free electronic newsletter from the Global Spatial Data Infrastructure Association (GSDI). 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. 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 June edition of the newsletter.

This month the SDI spotlight highlights the progress made in the development of the Abu Dhabi SDI. The article focuses on the importance of egovernance and the development of a geoportal to facilitate access and data sharing across the region.

Of special note this month is the GDSI Conference being held in Rotterdam, the Netherlands (15th-19th of June). The theme for this conference is **Spatial Data Infrastructure Convergence: Building SDI Bridges to Address Global Challenges**. The next edition of the SDI-AP Newsletter will present the highlights from the conference.

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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![GSDI logo - Global Spatial Data Infrastructure]

Spatial Data Infrastructure
Asia & the Pacific Newsletter

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, the staff of the Ministry of the Interior, Taiwan for the Chinese translation, and Shivani Lal, *GIS Development*, *Asia Surveying Mapping Magazine* for directly feeding into the newsletter and in particular Rafic Naamani of ADSIC (UAE) & Mark Sorensen of GPCI (UAE) for providing this weeks SDI Spotlight.

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SDI News, Links, Papers, Presentations

A new way of looking at NSW - Spatial Information eXchange
The Spatial Information eXchange (SIX) is the official source of NSW's geospatial information, possessing the most comprehensive, accurate and reliable spatial data for the State. At this website you can view, search, explore, connect and find out about anything to do with spatial data and NSW.
Source: New South Wales Government

SDI Cookbook Wiki
"The Global Spatial Data Infrastructure Association (GSDI) has published the GSDI Cookbook in a wiki environment and would like to invite contributions to this resource from a broad community of geographic data providers and users. The GSDI Cookbook wiki provides the necessary background information to evaluate and implement existing components of SDI. The GSDI Cookbook including topics on data development, visualization, discovery, standards, legal and economic issues, community building, and case studies. To contribute to the Wiki follow this link.
Source: GIS and Science

Predicting and Tracking the Swine Flu Virus
Spatial Data is providing a valuable tool for tracking the spread of disease outbreaks such as the Swine Flu H1N1 virus. A number of agencies and organizations have been actively involved in the mapping of this virus. For example:

HealthMap allows you to select various sources of information independently, to select various diseases, categories such as "new and ongoing outbreaks" and "international significance" and specific warnings.

MapCruzin.com is maintaining an archive of H1N1 ArcGIS shapefiles and Excel spreadsheets so that users can track swine flu occurrences over time. Included in the data are confirmed cases, suspected cases, fatalities and documentation. The site also includes free software and a tutorial to view the shapefile maps.
Source: GIS Café

Indonesia and Singapore's New Maritime Boundary
On 10 March, the foreign ministers of Indonesia and Singapore signed an agreement delimiting the maritime boundary between the two nations. The agreement was signed in Jakarta after about five years of negotiation. It is the first new boundary to be ratified since the signature of their first maritime boundary agreement on 25 March 1973.
Source: Asia Surveying & Mapping Magazine

ISPRS Project Grants
The International Society for Photogrammetry and Remote Sensing has agreed to fund three projects proposed by its working groups. Professor Jianya Gong from Wuhan University, who was nominated by work group IV/4 will work on integrating virtual globes and web service technologies for ISPRS higher education teaching and research.

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Source: Asian Surveying & Mapping magazine.

Experimental alert system in quake-prone areas of China

China announved that an experimental earthquake alert system, capable of sending warnings within seconds before a quake strikes, would be installed in quake-prone areas.
Source: ChinaView News & GIS News

People Failed Maps in Australian Bushfires

The Royal Commission into Australia's Black Saturday bushfires has been told that a failure to communicate map data to senior decision makers may have been central to the failure of the state's much-vaunted firefighters to contain the blazes.
Source: Asian Surveying & Mapping Magazine

Brazil and China to Team on another Earth Observation Satellite

The president of Brazil met this week with Chinese leaders in Beijing. One outcome of the visit was the announcement of the launch of the fourth China-Brazil Earth Resources Satellite (CBERS) by 2011. The two countries have collaborated on these satellites since 1999, with the third satellite launched into orbit in 2007.
Another outcome of their discussions was the announcement that imagery from CBERS-02B would be shared with Africa. This is the first time that China is sharing processed information with another country.
Source: Vector1media
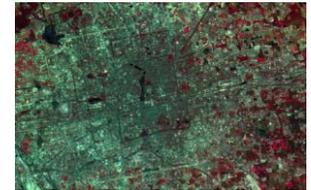
GIS maps effective in national malaria control programme

India - A GIS-driven digital map of past and predicted malaria outbreak hotspots has been used in India as part of a national control programme. Researchers writing in BioMed Central's open access International Journal of Health Geographics describe the creation of the GIS and its implementation in the malaria-stricken Madhya Pradesh region.
Source: GIS News and Eureka Alert

Vietnam plans national land use inventory

The Prime Minister of Vietnam Nguyen Tan Dung has urged relevant ministries and agencies to conduct a land-use survey across the nation beginning January 1, 2010 to form the basis for better land management
Source:GIS News and Viet Nam News Agency

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SDI Spotlight

This month the SDI spotlight is the Abu Dhabi SDI provided by Rafic Naamani of ADSIC (UAE) & Mark Sorensen of GPCI (UAE).

Sample of Large Scale Basemap

Abu Dhabi SDI Supports Wide-Ranging E-government Programs

As part of Abu Dhabi's ambitious e-government program, the Abu Dhabi Spatial Data Infrastructure (Abu Dhabi SDI) is an initiative administered within the Abu Dhabi Systems and Information Centre (ADSIC) to facilitate the sharing of geospatial data among government agencies and other stakeholders.
Abu Dhabi SDI is empowering government and society with convenient, open access to high-quality and up-to-date geographic information and spatially enabled e-government services.
In Abu Dhabi, government entities have invested heavily in GIS technology and geospatial data to meet their own organizational needs. The emirate is now in an excellent position to leverage that investment by establishing the necessary framework of policies, partnerships, standards, data, procedures, technology, and institutional capabilities that are needed to support more effective sharing and utilization of geospatial information. Abu Dhabi SDI has been conceived to provide that framework.

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Now in the second stage of a three-stage process, the initiative has 25 government and quasi-government entities involved, with another 15 expected to join before the end of the year. As part of the community development, ADSIC is in the process of developing service-level agreements and licensing arrangements with each entity that spell out what data will be provided, the timing of periodic updates, and access and use restrictions for the data each is providing. In addition, a legal expert has been engaged to work on strengthening aspects of the legal framework to address issues that have special relevance to geospatial matters such as security, privacy, and intellectual property rights.

3D Extruded view of Abu Dhabi City

Geoportal Key to Abu Dhabi SDI Success

The ultimate goal of the Abu Dhabi SDI initiative is to create a seamless network of interoperable nodes—geospatial portals—that will provide easy access to all geospatial information in the emirate. Currently, both secure government and publicly accessible geoportals have been set up, and the information available is being expanded and updated on an ongoing basis.

Emirates Palace Hotel, Abu Dhabi

The Abu Dhabi SDI geoportal provides access to the data clearinghouse from which more than 350 map services are being made available to the community. Data is now being kept current as the custodian entities periodically submit updates to the ADSIC team, which runs the data through procedures to ensure that the new information is consistent with the agreed standards. The geoportal is being used as a common reference for viewing existing data, and a few users are now employing thick-client access to map services published either as ArcIMS image services or Web Map Services (WMS). Several common spatial data engine applications (mobile mapping, area of interest locator, routing, geocoding, etc.) will soon be implemented that can be used by any e-government applications.

Many organizations in the Abu Dhabi SDI community have implemented or are planning to implement their own geoportal nodes. The Environment Agency—Abu Dhabi (EAD) has been operating its node for over two years, and other entities, such as the Department of Municipal Affairs (DMA), the Urban Planning Council (UPC), and the Abu Dhabi Water and Electricity Authority (ADWEA), have instituted or are planning to institute their own Web-based mapping services for internal and public use.

The implementation of these portals will lead to a greater sharing and utilization of spatial data in Abu Dhabi. Each organization is responsible for identifying individuals to be provided with access to the central geoportal, and these are approved and added by ADSIC. The participating organizations are now routinely adding new users as more people become aware of what is available and how it can be used in their work.
[Graphics: Courtesy of Department of Municipal Affairs, Abu Dhabi Municipality (DMA – ADM)]
ADSIC website, AD-SDI website, Geospatial Portal.

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

GIS Tools, Software, Data

Autodesk India Launches Infrastructure Modelling Software
Autodesk India has announced new infrastructure modelling software products, which help users in utilities, telecommunications organisations and government agencies improve the design and management of their infrastructure.

Autodesk's infrastructure modelling software product will provide users with mapping, data

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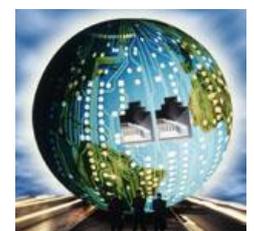
aggregation, and management tools they need across the infrastructure design and management workflow.
Source: EFYtimes

Omid Boosts Iran's Space Capability
On 2 February, the Iranian Space Agency launched a store and forward communications satellite called Omid (meaning hope in Farsi). It is the first Iranian-built satellite to be lifted by a domestic launcher. With this launch, Iran entered the club of nine countries that have their own satellite launching and manufacturing capacities.
Source: Asian Surveying & Mapping magazine

GIS and Geographic Inquiry: Resources for Educators
Teachers in earth, environmental, biological, and general science are increasingly incorporating geospatial technologies into their lesson plans.
Source: GIS & Science.

UTM to develop flood warning system using GIS
Universiti Teknologi Malaysia (UTM, Kuala Lumpur) will soon develop a flood early warning system for major towns to help overcome traffic congestion after a heavy rain. Vice Chancellor Datuk Prof Dr Ir Zaini Ujang said that through the system, road users would be informed much early of the possibility of floods and indirectly this would allow them to find alternative routes to avoid being caught in traffic jams.
"Floods in Kuala Lumpur is seasonal and for that, we will use the existing system including remote sensing and GIS to trace rain and rainfall in particular areas. "The system will be developed by the UTM Associated Research Group in collaboration with University of Oxford," he told a press conference.
Source: Bernama.com and GIS News

News & Reports from the recent GITA 2009 Conference (April 19-22) can be accessed here

Google Maps Malaysia
Google has launched Google Maps Malaysia. The site at www.maps.google.com.my includes street level data and directory listings, but not Street View. It also allows local companies to add any information they choose for free. The map data has been supplied by AND Navigation, Europa Technologies, MapIT and Tele Atlas.
Source: Asian Surveying & Mapping Magazine

Curtin University GNSS Research Group
Curtin University of Technology in Perth will establish a research group into future navigation satellites. The group's research program aims at developing theory, models and methods to ensure the best results. The timing is significant. Industry groups across the country are calling for the creation of a nationwide network of reference stations.

GIS map to identify vulnerable polling booths in India election
Even as police launched a massive crackdown on anti-social elements in the run-up to the Lok Sabha elections, the Nadia district administration, perhaps for the first time, has come up with a GIS map to identify vulnerable areas and sensitive booths in both the Krishnagar and Ranaghat constituencies.
Source: GIS Development

TerraLook, a free satellite image toolkit from NASA and USGS
A free tool and satellite data provided by NASA and the US Geological Survey called TerraLook, provides time series of geo-referenced jpeg images plus image processing/GIS software. It is intended to provide easy access to satellite images for users with little or no prior experience, though it also proves useful for experienced users who want a quick image.
Source: asterweb.jpl.nasa.gov and GIS News
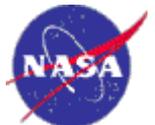
Introducing Thematic Mapping API
The brand new Thematic Mapping API enables you to create KML based thematic maps from your own data source. This JavaScript library is the missing link between Google Visualization API and Google Earth API (or other geobrowser APIs supporting the KML standard).
A few examples:
- Choropleth map
- Prism map

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- Proportional symbol map
- Pie chart map

The API is still in beta. Please email me if you would like to try the new API
Thematic Mapping API will be free to use on non-commercial sites.
From **Thematic Mapping Blog**.

Scribble in color on a map of the world with Scribble Maps, an application built on Google Maps. Used with permission.
Source: Directions Magazine

New version pof CatMDEdit now available
CatMDEdit 4.5 has been uploaded to the open source project web site. CatMDEdit is a metadata editor tool that facilitates the documentation of resources, with special focus on the description of geographic information resources.
The new features provided by version 4.5 are:
- Graphical definition of geographic extent by means of a polygon.
- Geographic display of resources on a map.
- Integration of a tool that enables the creation of feature catalogues following the ISO 19110 specification.
- Export of a metadata repository in a geoRSS file.
- Connection to gvSIG in order to open the resources documented previously with CatMDEdit.
- Improvement of application usability and user interface.
Source: **Dr. F.Javier Zarazaga-Soria** from GeoSpatiumLab and the Advanced Information Systems Group from the University of Zaragoza

June 9 Asia-Pacific Webinar Demo of OGC's OWS-6 Interoperability Testbed Results
On Tuesday June 9, 2009, the Open Geospatial Consortium, Inc. (OGC®) will conduct a free webinar demonstrating results from the OGC Web Services, Phase 6 (OWS-6) testbed activity.
The 2 hour webinar will start at: 8:30am in Mumbai, 11am in Perth, noon in Tokyo, 1pm in Sydney, 3pm in New Zealand.
Source: *OGC Press Release* for more details

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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.

US Air Force Bird Avoidance Model (BAM)
The United States Bird Avoidance Model (USBAM) program objective was to develop a predictive bird avoidance model using Geographic Information System (GIS) technology as a key tool for analysis and correlation of bird habitat, migration, and breeding characteristics, combined with key environmental and man-made geospatial data.
Source: Spatial News

Geoinformation perspectives on innovation and economic growth by Antony COOPER
This paper aims to provide some geographical information (geoinformation) perspectives on innovation and economic growth in Africa, for the first Session of the Committee on Development Information, Science and Technology (CODIST-1) of the United Nations Economic Commission for Africa (UNECA), Addis Ababa, Ethiopia, April 28 - May 1, 2009. This paper also considers the issues of intellectual property rights, standards and digital curation for innovation and economic growth.
Source: SDI-Africa Digest, Vol 53, Issue 1

SCTA inaugurates Tourism Geographic Information System
The Saudi Commission for Tourism and Antiquities (SCTA) inaugurated the Tourism Geographic Information
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System. The project is created by the Tourism Information and Research Center (MAS) and is available on line on MAS website and the Saudi tourism site.

New mosaics of Moscow on open access
Yandex.Maps geo-service, having the most complete map of Russia on the Internet, now offers a new mosaic of satellite images for the territory of Moscow and nearest Moscow Region with an option to display a hybrid layer of satellite images and maps. ScanEx Center specialists prepared a mosaic based on QuickBird (0.6 m resolution) and IKONOS (0.8 m resolution) images of 2008. The unique experience of combining two types of satellite data enabled to cover the area of over 10 000 square km with highly-detailed images in one season. Now Yandex.Maps web-service has the most updated and detailed satellite-based mosaics of the Russian capital among similar geo-services.
Source : GIS News and Scanex.com.

Solar radiation and photovoltaic electricity potential (Europe)
The European Commision has developed a solar radiation database from climatologic data homogenized for Europe and available in the European Solar Radiation Atlas, using the r.sun model and the interpolation techniques.
Source: GIS Development "Image of the Week"
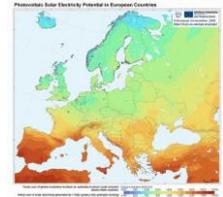
Israel, China to map the world
Survey of Israel – the National Agency for Geodesy, Cadastre, Mapping and Geographic Information – has signed an agreement for cooperation with the Chinese government's Bureau of Surveying and Mapping.
The agreement will lead to technological cooperation between the two countries in all mapping fields, including mapping via satellite, mapping of the earth, satellite mapping for GPS, mapping of automatic processes related to geographic processes, real estate mapping, etc.
Source: GIS Development

Novelist uses satellite maps to research locale
As a reality-based novelist, I have found that visiting my settings is critical to accurately writing about them. In most cases, I've been physically able to walk the areas I've described, but there are times when I must resort to other means. One of those involves using satellite imagery through the Internet. Here, a variety of mapping web sites allow me to zoom in on specific locations using a full range of magnification. Other than actually visiting the site, there isn't a better way to create or verify a potential scene.

Uganda wetland maps will help boost economy
Uganda's leaders now have access to maps that will allow them to reduce poverty through better management of the country's wetlands.
Source: GIS Development

Sea-Floor Snaps Offer Clue to Sea-level Rise
New, detailed images of the sea floor off the west coast of Antarctica are helping researchers to predict how the continent's ice sheet might respond to future warming. The images suggest that the mechanisms regulating the flow of ice into the sea may more complex than previously thought. The continent of Antarctica is swathed in an immense layer of ice up to 5,000 metres thick. Over time, the ice moves towards the sea, where it breaks away in the form of icebergs and eventually melts. Because it lies on rock that is above sea level, the ice sheet covering the eastern half of the continent is fairly stable. In contrast, the West Antarctic Ice Sheet (WAIS) lies on rock that is below sea level, making it much less stable.
Source: V1 Media

New UK street database to prevent satnav errors
A new national street database providing details of low bridges, narrow roads and other restrictions could help to reduce satellite navigation errors. The National Street Gazetteer (NSG) lists over one million UK streets and is already widely used to help coordinate road works across England and Wales. It has been updated to a new format that enables highway authorities to record heights, weights and width restrictions and directions against individual roads and streets.
…
Significantly the ability to record heights, weights, width restrictions relating to weak bridges, low bridges or simply streets not wide enough for HGVs, now makes the NSG particularly useful to emergency services, transport firms and satellite navigation companies.
Source: GeoConnexion.com and GIS News

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Harp seal protection programme results out

ScanEx RDC has summed up the results of the harp seal protection programme in the White Sea launched starting February 28 through March 29, 2009 together with the IFAW and other partners. Space imagery technologies were actively used for the first time for the purpose of this project.
Source: GIS News and http://www.scanex.ru

Bluesky provides height models of entire UK online

Aerial survey company Bluesky has launched two online height models covering the whole of England, Wales and large parts of Scotland. With accuracies up to 25cm in urban areas the Digital Terrain Model (DTM) and Digital Elevation Model (DEM) provide detailed representations of the topographical variations in the surface of the earth including, in the case of the DEM, vegetation cover and man-made structures. Visitors to www.bluesky-world.com can search the online models using a place name, postcode or geographical coordinate before viewing their chosen area or downloading digital files.
Source: GIS News and BlueSky

Update on RAPIDEYE

The RapidEye constellation has collected more than 69 million square kilometres of imagery in its first 100 days of operation. The imagery is at least 80 per cent cloud-free, says the company. The imaging campaigns were concentrated in China, Europe, the US and Brazil. The constellation began operations in February this year.
Source: Asian Surveying & Mapping

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Articles

What role do geospatial tools play in government transparency?

The pledge by the Obama administration to provide greater government transparency will rely heavily on the Internet to enable better public participation in our democracy. Greater openness largely revolves around web-based tools that broaden access to government data and research, while allowing comment and even citizen collaboration. The democratization of data is a key outcome of this pledge, with implications for greater citizen involvement. Read more …
Source: *Spatial Sustain* article

Integrate and analyse with ontologies by A Sai Venkata Lakshmi, J Sai Baba, SK Subramanian, & TV Subba Rao

A number of applications in sustainable development, disaster management and urban planning necessitate integration of data from different sources. It is often difficult to make necessary and timely decisions because information created by multiple sources uses different vocabularies, taxonomies and content standards.
Source: GIS Development

A landslide potentiality mapping on Mauritius Island by Rody NIGEL & Soonil D.D.V. Rughooputh
Abstract
A landslide potentiality assessment method that is based on a factorial indexing system has been created and tested for Mauritius Island. The assessment aims at finding lands that can potentially slide by making use of an equation that has as input five parameters decisive for potential landslide namely; rainfall amount, terrain slope angle, permeability of geology strata, soil and land cover type. The equation output are indexes ranging from 1 to 10 such that 1 is associated with the lowest risk and 10 with the highest risk of potential landslide. A region that has not been assigned an index have no risk of land sliding there even though that region might be vulnerable to sliding lands from uphill. Results show that the method succeeds in mapping land that can potentiality slide and in evaluating the corresponding regions that are at risk from the latter.
Keywords: Potentiality mapping, factorial indexing, Landslide, GIS, Mauritius
Source: GIS Development

The capability of GIS to analyze data and determine the best locations by Alshehri Mushabab
Source: GIS Development

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Books and Journals

Open Geospatial Consortium News
To subscribe send mail with "subscribe" (no quotes) in the subject

We have just received **Coordinates Ezine April'09**. This online journal may be subscribed to at
< http://www.mycoordinates.org/unsubscribe.php >. This issue included the articles Exploring the moon in three dimension by P K Srivastava, B Gopala Krishna and Amitabh; A sensor architecture for high precision UAS navigation by Luca Garbarino, Vittorio Di Vito, Ettore De Lellis, Carmine Marrone and Federico Corraro; Calibration method of IMU based only accelerometers by Wu Junwei and Taking Geomatics to greater heights in India by P Misra. Previous issues are also available.

The 1st edition of **the Pacific GIS/RS Newsletter for 2009** is now ready for download on the PICISOC website;
Contents:
- Marine Conservation Prioritiztion
- The Asia Pacific Natural Hazards Information Network (APNHIN): Providing Geospatial Data and Fostering Data Sharing Partnerships
- Introduction to Quantum GIS
- Applications of GIS and GPS to Reduce Vehicle Fuel Use
- Water Assets Enterprise GIS Development Using A Modular Approach
- Creation, Management and Aeronautical Chart Production Using GIS of Tonga's Domestic Airspace Data
- Nadi Flood Mapping Applying TerraSAR-X Image Data
- Reference Image Points Collection and Image Rectification of Pohnpei
- Habitat Mapping of Aitutaki, Cook Islands
Thanks to KL for drawing this to our attention

Fundamentals of Crime Mapping: Principles and Practice introduces the topic of crime mapping and the history of GIS in law enforcement. This valuable text includes a workbook for hands-on instruction. Special topics discussed include: an up-to-date discussion of the current crime trends in rural and urban areas, the major ecological theories of crime, the notion of geographic profiling, empirical research using crime mapping tools, basic mapping terminology, and more! From Jones & Bartlett Publishers, 2009.

Geographic Information Systems: Webster's Timeline History, 1920 - 2007
Webster's bibliographic and event-based timelines are comprehensive in scope, covering virtually all topics, geographic locations and people. They do so from a linguistic point of view, and in the case of this book, the focus is on "Geographic Information Systems," including when used in literature (e.g. all authors that might have Geographic Information Systems in their name). As such, this book represents the largest compilation of timeline events associated with Geographic Information Systems when it is used in proper noun form. Webster's timelines cover bibliographic citations, patented inventions, as well as non-conventional and alternative meanings which capture ambiguities in usage. From ICON Group International, Inc., 2009.

Map Addict
'My name is Mike and I am a map addict. There, it's said!' Maps not only show the world, they help it turn. On an average day, we will consult some form of map approximately a dozen times, often without even noticing: checking the A-Z, the road atlas or the Sat Nav, scanning the tube or bus map, a quick Google online or hours wasted flying over a virtual Earth, navigating a way around a shopping centre, watching the weather forecast, planning a walk or a trip, catching up on the news, booking a holiday or hotel. Maps pepper logos, advertisements, illustrations, books, web pages and newspaper and magazine articles: they are a cipher for every area of human existence. At a stroke, they convey precise information about topography, layout, history, politics and power. They are the unsung heroes of life: *Map Addict* sings their song. There are some fine, dry tomes out there about the history and development of cartography: this is not one of them. *Map Addict* mixes wry observation with hard fact and considerable research, unearthing the offbeat, the unusual and the downright pedantic in a celebration of all things maps. From Collins, 2009.

Map Use is about reading maps. The book is oriented toward helping people to under-stand how maps work and can be used to communicate. Where other cartographic books often describe tech-niques alone, this book provides explanations on how different map techniques are being used. That process ensures that readers

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begin to think not only about creating maps, but what a map can be used for and how it can help other people to understand. V1 Magazine editor Jeff Thurston reviews the book and provides a summary.

Map Use: Reading and Analysis, 6th Edition, by A. Jon Kimerling, Aileen R. Buckley, Phillip C. Muehrcke, & Juliana O. Muehrcke, ESRI Press, 568 pages; 2009, ISBN: 978 - 1589481909

Manual of Geographic Information Systems Published by ASPRS

A press release from the *American Society for Photogrammetry and Remote Sensing* announces their publication of this book.

Source: Directions Magazine

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Just for Fun !

Clean your vacant site or pay up

BANGALORE: If you own a vacant site that you have not fenced or had it cleaned for a long time, then get ready to pay for it - along with your property tax.

With all properties in the city now mapped with the latest Geographic Information System (GIS), BBMP hopes to soon find a way to tackle uncleaned private sites. "There are more than two lakh vacant sites in the city. All of them have been mapped. We are also in the process of identifying the sites' owners. A majority of them, particularly those in residential areas, are increasingly prone to being dump yards. But no more,'' BBMP commissioner S Subramanya told The Times of India.

Source: GIS News and Times of India.

Virtual 3-D flyover map

The American Veterans Center is using a three-dimensional map from Harris Corporation to show in remarkable detail the route for the upcoming National Memorial Day Parade. The map -- which shows buildings, trees and landmarks as a video with photo-realistic 3-D views -- is viewable by the public at the parade web site.

Source: GIS News and PR News.

Secrets revealed from historical maps on Google Earth

When Google added historical maps of Japan to Google Earth's collection last year they didn't realise that it could backfire.

Source: Fryan's blog.

[**Editor's note:** *GIS Development Weekly* (May 11) has an editorial comment on this news item.]

There's a whole wide world out there still waiting to be explored: Geographers who concentrate on research and freeze out big expeditions are missing out on a golden age of discovery by Hugh Thomson

Are there still unknown corners of this world to be discovered? Is there any purpose to sending out large-scale expeditions to explore far-flung places?

The answers to these questions have split the Royal Geographical Society (RGS) into two warring camps - "explorers" and "academics". The academics distrust the explorers - a near-swear-word in their lexicon - as grandstanding exhibitionists, always searching for the media spotlight. The explorers accuse their opponents of wanting to freeze out those who are not university-tenured geographers and further their own narrow academic careers.

Source: From *The Times Online*, May 20, 2009

Major League Baseball Geolocation Patent

That's right, Major League Baseball Advanced Media now has a patent related to geolocation. It's a process designed to ensure that those in the "wrong" geographies can't gain access to online video, but may also apply to other "rules based events." The patent and its use raise a number of interesting possibilities.

Source: Directions Magazine

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Training Opportunities

Spatial Data Infrastructure
GIS Training, 21st - 24th June, Dubai, United Arab Emirates
Spatial Data Infrastructure (SDI) is a web of interconnected, spatially based information that allows for the development of a common, spatially based operating picture (map) for use by contributing partners, and, often with restriction, business entities and the public.

While data itself is of prominent concern, many attempts to develop SDI are hampered by troubled planning, management, and systems design strategies. This course will use case studies and hands on exercises about planning and implementing SDI.

Specific topics covered will include needs assessment, implementation planning, theoretical data model development, logical data model development, usage implementation, how to conduct a successful pilot project, data capture and documentation, and systems architecture design considerations. Emphasis will be placed on developing SDI using a consensus and standards based approach that maximizes participation and return on investment while minimizing risk and tackling important policy considerations.

Further information including registration details are available

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Spatial Analysis: New Online Training Courses

Creating and Analyzing Surfaces Using ArcGIS Spatial Analyst
June 2, 2009
8:30 a.m.- 4:30 p.m. Pacific Time
In this course, you will use ArcGIS Spatial Analyst to model a variety of real-world scenarios for more informed decision making. You will work specifically with elevation rasters and other data to model surfaces, evaluate results, and create a variety of maps.

Geoprocessing Raster Data Using ArcGIS Spatial Analyst
June 4, 2009
8:30 a.m.-4:30 p.m. Pacific Time
In this course, you will examine suitability modeling techniques using raster data. You will learn to classify, weight, and combine data to identify sites suitable for a specific use. In course exercises, you will work with ModelBuilder to implement a suitability modeling workflow.

Further information on these two training courses is available from GIS and Science

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Upcoming ITC Refresher Courses

Designing and Utilizing geoinformation infrastructure for effective electronic governance in Eastern Africa, Uganda, starting 12 October 2009 (two weeks). The course will take place prior to the Africa GIS 2009 conference. Priority will be given to applicants with accepted abstracts to the Africa GIS conference (Note: deadline for abstracts extended to May 30, 2009). A number of fellowships are available for eligible candidates. **Application deadline: June 15, 2009.**

Targeting Urban Poverty Alleviation, Ethiopia, starting 14 September 2009 (2 weeks). A number of NFP fellowships are available for eligible candidates. **Application deadline: July 1, 2009.**

Use of low cost earth observation data in environmental and climate monitoring applications: taking further the African Union - AMESD initiative, Rwanda, starting 5 October 2009 (2 weeks). A number of fellowships are available for eligible candidates. **Application deadline: August 20, 2009.**

Geospatial Sciences RMIT Mid-Year intake
Research based, the two year full time (four year part time) Master of Applied Science and four year full time (eight years part time) Doctor of Philosophy (PhD) cover a wide range of areas. The programs include surveying, multimedia cartography, satellite positioning, land and geographic information systems (LIS/GIS), photogrammetry, remote sensing, sustainable development and resource management.
Source: RMIT
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SLA First Scholarship

Singapore Land Authority, the island's national mapping authority, plans to give scholarships to undergraduates who want to pursue geospatial science and technology-related disciplines. The scholarships will be available for study in both Singapore or overseas. SLA is also working with secondary school students to make them more aware of geospatial technology.
Source: Asia Surveying Magazine

Fourth International Workshop on "Geographical Analysis, Urban Modeling, Spatial Statistics" (GEOG-AN-MOD 09)

<http://www.lisut.org/workshop/GEOG-AN-MOD09/> in conjunction with
The 2009 International Conference on Computational Science and its Applications (ICCSA 2009)
"NEW" June 29th to July 2nd, 2009
Kyung Hee University-Global Campus, Yongin (Korea)
Important dates
June 29 - July 2, 2009: ICCSA 2009 Conference.

Association of American Geographers offers membership at reduced rate for eligible professionals

Geographers and others whose work involves Spatial Data Infrastructure, GIS, remote sensing, and geospatial data issues in Asia and the Pacific may be eligible to join the Association of American Geographers (AAG) for $20 per year. This new reduced dues rate is open to professionals who earn less than US$25,000 per year and are both citizens of and residents in certain countries throughout Asia and the Pacific. A full list of these countries is available.
The AAG developing regions membership category offers all regular AAG member benefits, with the exception that publications are provided only in digital format.
For more information on this membership program, or contact Matthew Hamilton.
For more information on the Association of American Geographers.

Advanced Training in Remote Sensing & GIS

Inter-Islamic Networks on Space Sciences and Technology (ISNET) is an inter-state, non political and non profit making agency. It is an independent, autonomous and self governing institution under the umbrella of the OIC (Organisation of Islamic Conference) Standing Committee on Scientific and Technological Cooperation (COMSTECH). SUPARCO is the host organisation of ISNET.
Institute: National Center for Remote Sensing and Geo-Informatics (NCRG), Karachi, Pakistan
Application deadline & Form: 1 June 2009
Starting Date: 13 July 2009 (2 weeks)
The course aims at providing knowledge and skills in state-of-the-art remote sensing technologies and their applications. It will also focus on concepts of digital image processing techniques, development of image processing algorithms to achieve various image processing tasks. It will also attempt to explore functionalities of various off-the-shelf commercial systems and their comparison. Hands-on training will be imparted to develop practical skills in image processing. The course will touch upon latest developments in remote sensing both in space and ground segments.
ISNET will sponsor participants on the basis of evaluation of the course organising committee and also consider the criteria of first come first served basis. Usually only 4-5 participants can be accommodated in each Course. Sponsorship for workshop will depend on the availability of sponsorship funds for that particular workshop.
Thanks to Kate Lance for bringing this to our attention.

United Nations University – ITC - School for Disaster Geo-information Management
Capacity Building for Disaster Geo-Information Management

Worldwide we are faced with a rapidly growing impact of disasters, due to increased vulnerability and climatic extremes. There is an urgent need to include the concepts of disaster risk management into planning, sustainable development and environmental impact assessment. The evaluation of the expected losses due to hazardous events requires a spatial analysis, as all components differ in space and time, using tools that handle spatial information, such as geographic information systems (GIS).
One of the important requirements to carry out an effective disaster risk management is capacity building and training of disaster management experts and professionals.
For 2009 the following courses are scheduled:

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§   Short course **GIS for Disaster Risk Management**
In collaboration with: Asian Disaster Preparedness Center (ADPC) and Geoinformatics Center of the Asian Institute of Technology (AIT), Thailand;
§   Distance Education course **Multi-Hazard Risk Assessment**
§   **Master of Science** degree course in **Geo-information for Spatial Planning and Risk Management**, with the University Gadjah Mada, Indonesia
§   **MSc** and Postgraduate **diploma course** in **Applied Earth Sciences** – Geo-hazards stream
§   **MSc** and Postgraduate **diploma course** in **Geo-hazards**, with IIRS, Dehra Dun, India.
  For more information go to Website.

Workshop on quality, scale and analysis aspects of city models
Lund, Sweden, December 3-4, 2009
Topics
• Multiple representation modelling, storage and analysis of city models
• Integration of 2d and/or 3d-models, as well as image data
• Quality-based generalization: control and evaluation
• Semantic generalization of data models
• Understanding uncertainties in spatial data
• Presentation of quality information by metadata in GIS
• Use of images in quality assurance
• Spatial reasoning process
• Quality of spatio-temporal data and models in urban environment
• All other topics that relates to the theme and the urban context
Important dates
30 June 2009: submission of extended abstracts.
31 August 2009: Notification of acceptance.
1 October 2009: Last day for registration.
1 November: Submission of full papers.
3-4 December: Workshop.
Submission guidelines
Papers must be written in English and must be formatted strictly according to the ISPRS guidelines. The maximum length of the extended abstract is restricted to 5 pages, including all figures and references. The submission of papers is in ms-word format only.
Publications
All accepted full papers will be published on a workshop CD.
Selected papers will be reviewed for publication in a special issue of ISPRS journal, which is planned to be published in early 2011.
Workshop website
At this website you can register and submit abstract/papers. Questions
About Lund
Lund is an old city in Southern Sweden. The city is believed to have been founded around 990, when the Scanian lands belonged to Denmark. It soon became the Christian center of Northern Europe with an archbishop and with the towering Lund Cathedral, built in 1103.
The atmosphere of Lund is much formed by Lund University, one of the largest universities in Scandinavia. Lund University, established in 1666, has around 42,000 full or part-time students. As late as the 1940s, Lund was a relatively small city with few large-scale industries, covering only about a fourth of the current urban area and was dominated by the cathedral and the university. Since then, the student population has increased about twelvefold, many industrial companies in the chemical, medical or electronics branches and, more recently, within information management, have set up establishments in the city, and the town's population, architecture and pulse has been transformed.
Contact: Lars Harrie, GIS Centre, Department of Physical Geography and Ecosystems Analysis, Lund University
Sölvegatan 12, SE-223 62 Lund, Sweden, Tel: +46 46 222 01 55, Email

Pitney Bowes online Webinars [Web Seminars] archive available at Map Extreme and MapInfo.

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Asia & the Pacific Newsletter

The 8th Geospatial Solutions Applications Contest
Enter the Geospatial Solutions Applications Contest for your chance to win GeoExpress Tools software from LizardTech, a GPS Bluelogger with XMap 5.2 Professional software from DeLorme, or an ERDAS TITAN GeoHub! Plus, top entries will be published on the *Geospatial Solutions* Web site. To enter submit a 500-word (approx) description of your innovative or cost-effective application of geospatial technologies, use the form and instructions available from the website.
(Source: Geospatial Solutions)

China Scholarship at UNSW
The China Scholarship Council will award an unspecified number of post doctoral scholarships at the University of New South Wales. The scholarships are for study under Dr Linlin Ge, a world renowned expert in the use of space-based interferometric synthetic aperture radar
Source: *Asia Survey Magazine*

PhD Scholarships in China
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 2009 Liaoning Provincial Government Scholarship Program. Email Prof. Xu.
Note: Closing date for intending 2009 students is April 30. Professor Xu welcomes enquiries from students seeking information for later years.
Source: Asian Survey & Mapping

Intergraph Opens Nominations for 2009 Carl Pulfrich Award
Award to Honor Outstanding Achievement in Photogrammetry, Remote Sensing and Earth Imaging
Intergraph is now accepting nominations for its biennial Carl Pulfrich Award to recognize significant design and manufacturing contributions to the industries of photogrammetry, remote sensing and earth imaging. The award is dedicated to honorees in memory of Dr. Carl Pulfrich, a key member of the scientific team at Carl Zeiss, Inc., who from 1890 to 1927 oversaw the design of the company's first stereo photogrammetric and surveying instruments. Carl Zeiss, Inc. later teamed with Intergraph to create Intergraph's Z/I Imaging photogrammetry division.
Professionals in the photogrammetry, remote sensing and earth imaging industries may nominate candidates for the Carl Pulfrich Award, which will be presented during the 52nd annual Photogrammetric Week, Sept. 7-11, 2009, in Stuttgart, Germany. The recipient will be granted a monetary reward of up to $7,500.
"Intergraph has been presenting the Carl Pulfrich award to deserving earth imaging and remote sensing experts since 2001," said Dr. Mostafa Madani, chief photogrammetrist at Intergraph and chairman of the Carl Pulfrich Award Council. "We are thankful to be able to continue offering the award this year. It is very motivating for Intergraph and our peers in the community to simultaneously honor the memory of a true earth imaging pioneer while recognizing the top contributors of this generation."
Nominations for the Carl Pulfrich Award must be received by 5 p.m. (CST) on July 1, 2009. For more detailed information on nomination guidelines and procedures, please visit .

Travel Grant Opportunity to attend AfricaGIS 2009
The ISPRS Foundation is seeking applications from individuals wishing to obtain travel assistance from the "Trust Fund Amsterdam 2000" (administered by the ISPRS Foundation) to participate in the AfricaGIS International Conference, which will be held in Kampala, Uganda, from 26 to 30 October 2009
Deadline for receipt of applications: 10 July 2009. Applicants should read the preamble and complete the application form which can be downloaded from the ISPRS website.
Thanks to KL for this announcement.

UN photo contest zooms in on drylands
As part of an ongoing effort to raise awareness about the urgent need for action against desertification and land degradation, the UN is calling on all aspiring photographers to participate in its second international photo contest.

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The UN Convention to Combat Desertification (UNCCD) is looking for images that artistically highlight either the efforts of people trying to conserve soil, land or water in drylands or the relationship between people and dryland ecosystems.
Source: GIS News and ESA News.

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20 student bursaries (each worth £ 120) for high quality MSc/PhD students submitting papers to LBS 2009 to help cover their registration fees for LBS 2009 conference (2-4 September). These bursaries are sponsored by University of Nottingham Horizon Digital Economy Research Hub and Horizon Doctoral Training Centre. More details.

Eligibility Criteria:
You are currently student in a Masters or PhD program
You are an author of a full paper/extended abstract that has been accepted for presentation at the LBS 2009. Please mention that you wish to be considered for Horizon student bursary when you submit your paper.

Horizon Doctoral Student Colloquium
The LBS 2009 committee is pleased to announce a Doctoral Student Colloquium for this year's LBS conference. The Colloquium will provide doctoral students with the opportunity to present their work to senior faculty in a setting that is relatively informal but that allows for maximum intellectual exchange. Students will receive feedback on their presentation and/or current research from participating faculty and from students' peers.

More info on Horizon:
The Horizon Digital Economy Research Hub centre is a new £12 million research centre at The University of Nottingham to develop digital technology to transform modern living. This builds on the success of the £ 5.7 million Horizon Doctoral Training Centre in Location-aware Pervasive Computing at the University of Nottingham. The Centre for Geospatial Science is part of both Horizon Digital Economy Research Hub centre and Horizon Doctoral Training Centre.

Please contact me for any information needed.
Dr Suchith Anand, Centre for Geospatial Science, Sir Clive Granger Building, University of Nottingham
Tel: (0)115 846 8408
< http://www.nottingham.ac.uk/cgs/cgs_suchith_anand.html >
< http://www.opensourcegis.org.uk/ >
< http://ica-opensource.scg.ulaval.ca/ >

PhD Studentships
Broaden your horizon: the Nottingham Doctoral Training Centre in Location-Aware Ubiquitous Computing for the Digital Economy

Location-aware Ubiquitous Computing, which takes advantage of knowing the geographical position of the millions of fixed and mobile computing and communications devices embedded into the world around us - is the most exciting and significant technology to emerge since the Internet. It promises to transform the ways in which we work, shop, travel, learn, socialise and play. Would you like to be at the heart of this revolution, exploring new uses of ubiquitous computing, creating new location-aware technologies, or studying their impact on people's lives?

This new Doctoral Training Centre at the University of Nottingham is recruiting on to a unique and major new PhD programme in Location-aware Ubiquitous Computing. Supported by EPSRC and over 30 industry partners, we are training a community of over 50 PhD students to become the next generation of research leaders in this field.

Students will benefit from:
*   a fully-funded four-year PhD programme that integrates a leading-edge research project with research training in interdisciplinary skills
*   a personalised pathway through this programme giving a balance of skills across key technology areas, future applications and human and societal issues
*   training in innovation and ingenuity to equip students for careers in industry, from global companies to start-ups
*   a three-month salaried internship at one of our partners which include the BBC, BT, EADS Astrium, HP, IBM, Logica, Microsoft, Network Rail, Nokia, Ordnance Survey, PARC, Scott Wilson and Thales (full list below)

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* regular seminars and meetings with industry representatives to develop contacts with future employers
* an enhanced stipend of £15,000 per annum as well as a personal laptop
* supervision from international leaders in the field of Location-aware Ubiquitous Computing and associated disciplines
* use of multi-million pound state-of-the-art facilities including positioning and sensing test-beds and transport simulators
* career guidance support tailored to individual needs
* office and laboratory space on Nottingham's award-winning Jubilee Campus

Students from a wide variety of backgrounds including computer science, the geospatial sciences, engineering, psychology, sociology, business, social science and the arts are all invited to apply, but you must have an excellent first degree and be able to demonstrate an enthusiasm for interdisciplinary research. The full EPSRC funding is restricted to UK/home students but there is also one international studentship available.

Our current industry partners are: Active Ingredient, Aerial, BBC, Blast Theory, BT, EADS Astrium, EUROCONTROL, Fhios, Guidance Monitoring, HP, HW Communications, IBM, innovITS, Leica Geosystems, Location and Timing KTN, Logica, Microsoft, Network Rail, Nokia, Nottingham Scientific, Ordnance Survey, PARC, Scott Wilson, SERCO, Thales, Trinity House, TRL Technology.

Informal enquiries may be addressed to Professor Mike Jackson or Dr H Glover, tel: 0115 846 6780

For an application form, please email Samantha Stapleford, Nottingham, Jubilee Campus, Wollaton Road, Nottingham, NG8 1BB. Please quote ref.

The **closing date for this round of applications is Monday 15 June 2009.**
Dr Suchith Anand, Centre for Geospatial Science
Sir Clive Granger Building, University of Nottingham, Tel: (0)115 846 8408
< http://www.nottingham.ac.uk/cgs/cgs_suchith_anand.html >
< http://www.opensourcegis.org.uk/ >
< http://ica-opensource.scg.ulaval.ca/ >

Scientific Capacity Building/Enhancement for Sustainable Development in Developing Countries
Special call for proposals for a focused activity from **Asia-Pacific Network for Global Change Research (APN)**
A limited amount of financial support* is available for focussed activities that are undertaken at local, national or regional levels in Scientific Capacity Building for Climate Impact and Vulnerability Assessments.
1. The proposed activity must focus on scientific capacity building of developing nation(s) to conduct climate impact and vulnerability assessments.
2. The proposed activity must have high potential to provide positive outcomes for developing countries that could also be used by the international community.
3. The proponent's institution must be based in a developing member or approved country of the APN
4. The proponent and/or collaborators must possess the skills necessary to impart scientific capacity building in the focus area of climate impact and vulnerability assessments.
5. The proponent must inform his/her APN country nFP and SPG member (where one exists), in advance, of the intention to submit a proposal. Click here < http://www.apn-gcr.org/en/aboutapn/whoswho.html > to view the contact details of APN members.
6. The proposed activity must outline policy-relevant questions to be addressed and answered, organisational arrangements of the proposed activity and a publication and dissemination plan. In this respect, strong links with government units and/or agencies are expected.
7. The Expression of Interest must follow the template and be submitted to the APN Secretariat by Friday 5th June 2009.

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Employment Opportunities

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 >

GIS Professionals – Vietnam

Geomatic Consulting International is an internationally managed survey and mapping company resident in Vietnam.

The company currently is seeking a number of GIS professionals for project work in Vietnam. Projects require both Vietnamese nationals as well as international Team Leaders and Specialists with the following capabilities and experience:

- o   Training and education in the field of applying Geo-information techniques to earth sciences,
- o   Qualifications in flood hydrology and river hydraulics, GIS/RS, hazard mapping,
- o   GIS design and operation experience,
- o   Ability to speak fluent English and prepare written reports in English,
- o   Training experience.

Projects start in July and August, 2009 with specialist input periods ranging from 4 to 12 months. GCI invites interested experts to submit their CVs (in English) by email to David Mitchell.

Geomatic Consulting International, Ho Chi Minh City, Vietnam

Director of Land Survey and Management, RCMRD, Nairobi, Kenya

Download Position Description

Contract Duration: Three (3) years renewable three times.

Applicants for these positions must be nationals of the Centre's member States only.

Applications should be **submitted no later than 15 August**, 2009, addressed to:

Director General, RCMRD, P.O Box 632, 00618, Ruaraka, NAIROBI

Tel: +254 020 8560654/8561775/8560227/8560625; Fax: +254 020 8561673/8563767   E-mail

Rainforest Foundation UK is looking for a consultant to conduct the Final Evaluation for the project "Cartographie Communautaire de Populations Forestières" in Democratic Republic of Congo (DRC).

For further information, contact: Giulia Pedone, PhD; Programme Coordinator DRC, Rainforest Foundation UK

Drive Geospatial information into the future

- •   Be at the cutting edge of geospatial information
- •   Fantastic opportunity to lead an all of government initiative
- •   Engage and influence at a senior level

This is a real opportunity to accelerate your career by taking a leadership role in driving forward New Zealand's Geospatial Strategy. Managing the NZ Geospatial Office, you will play a pivotal role in engaging at a senior level across the geospatial sector in determining, negotiating and delivering priorities.

Working at the cutting edge of geospatial information, you will advise and support the Geospatial Executives Group, Chair the Geospatial Steering Committee and oversee the multiple agency work programme for implementing the Geospatial Strategy. As part of LINZ's wider leadership team, you will provide a specialised geospatial focus to the development and implementation of LINZ's organisational strategy.

Critical to your success in this role will be your strong leadership skills and your proven ability to engage, influence and work across the government sector. You will be politically savvy, demonstrate strategic agility, have excellent interpersonal skills and the ability to inspire and motivate people towards a common vision.

To apply for this position please visit < http://www.h2r.co.nz > quoting vacancy number no 12908. For further information please contact Bronwyn Long or Leah Carter at H2R Consulting on 04 4999 471.

All applications will be acknowledged by email. Applications close Monday 8 June 2009.

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Spatial Data Infrastructure
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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
June 2009		
01 – 04 June	Vancouver, BC, Canada	**GeoTec Event 2009** E-mail
2-5 June	Hannover, Germany	**Call for Papers for the 12th AGILE International Conference** Deadline of pre-conference workshop proposals: November 30, 2008; Deadline for full paper submissions: December 12, 2008; Deadline for short paper and poster submissions: January 16, 2009
15-16 June	Canberra, Australia	**spatial@gov Conference 2009** **Abstract submission deadline: 16 March 2009** The 2009 spatial@gov Conference is a new event for the spatial community and will focus on the importance of spatial information in enhancing the business of all tiers of government. This conference will focus on the benefits of using "place" or "location" as a powerful enabler to support policy development, service delivery and internal business processes. The program will cover government spatial activities in the areas of national priority including Social Inclusion, Climate Change and a range of other government activities.
15-19 June Theme: Spatial Data Infrastructure Convergence - Building SDI Bridges to address Global Challenges	Rotterdam, The Netherlands Information: (English) and (Dutch)	**11th International Conference on Global Spatial Data Infrastructure (GSDI 11)** The first call for papers is published at http://www.gsdi.org/gsdi11/papers.html. If you want to secure your participation in the GSDI 11 World Conference, it is now possible to register here as well! **DEADLINES:** 1 December, 2008 and 1 April, 2009 Contact information: PCO agency GSDI 11 (BlomBerg Instituut/Geonovum) Esther Stukker, tel. +31 (0)73 - 684 25 25
17-19 June	Newport Pagnell, UK	**The British Cartographic Society's Annual Symposium**, Mapping At Work. This 3-day event is an opportunity for mapmakers, users, librarians and enthusiasts to share information about recent mapping projects, research and know-how.
22 June 2009	Nottingham, UK	**CFP - FIRST OPEN SOURCE GIS UK CONFERENCE 2009** The Centre for Geospatial Science of University of Nottingham, Open Source Geospatial Foundation (UK Chapter), ICA Working Group on Open Source Geospatial Technologies, SOSoRNET and Open Knowledge Foundation are organizing the First Open Source GIS UK Conference
June 22-23	Santa Fe, New Mexico, USA	**UCGIS 2009 SUMMER ASSEMBLY**
22-25 June 2009 "NEW"	Siem Reap, Cambodia	**Delta Research And Global Observation Network (DRAGON) Asia Summit 2009** Topics being considered for sessions and symposia: * Data Integration: Integrating Scientific Information for the Mekong Delta * Integrating Data for Forecasting Models for the Mekong Delta * Great Lakes of the World

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		* Delta Geomorphology and Hydrology * Human Impacts: Demographics and Engineering * Deltaic Systems: Landscape and Ecosystem Change * Education: Creating Sustainability Through Local Communities * Education: Closing the Gender Gap * Global Climate Change * Wildlife and Aquatic Habitats * Poverty Alleviation and Sustainability * Mangrove Ecosystems * Interjurisdictional Resource Management * Regional Wetland Research * RAMSAR and Science Needs Contact
June 29-30, **"NEW"**	Ulaanbaatar , Mongolia	The National University of Mongolia will be holding the **3rd International and National workshop "Applications of Geo-informatics for Mongolian Natural Resource and Environment"** Participants are invited to electronically submit their abstracts and interest of attendance. The abstracts should be submitted as an email attachment to or alternatively to. Abstracts must include title, authors (first name, surname), indicating the presenter by underlining their name, and providing lead author's contact details: affiliations, department, full address (street, city, state/province, and country), telephone, fax, and email. Student paper session will be held during the workshop. **Important Dates:** Abstract Deadline: April 26, 2009 Full paper Deadline: June 5, 2009 Registration Deadline: June 26, 2009 Conference Dates: June 29-30, 2009
29 June – 1 July	Beirut, Lebanon	**Towards a Unique Map for the Arab World** - First International Symposium of the Arab Union of Surveyors
29 June – 2 July	Yongin, Korea	**Fourth International Workshop on "Geographical Analysis, Urban Modeling, Spatial Statistics" (GEOG-AN-MOD 09)** in conjunction with **The 2009 International Conference on Computational Science and its Applications (ICCSA 2009)** June 29th to July 2nd, 2009 Kyung Hee University-Global Campus, Yongin (Korea) *Important dates *16 February 2009: Deadline for full paper submission *24 March 2009: Notification of acceptance *12 April 2009: Deadline for Camera Ready Papers *June 29 - July 2, 2009: ICCSA 2009 Conference.
June 29-July 10	Florence (Firenze), Italy	**Vespucci summer institute 2009: 7th Annual Summer Institute on Geographic Information Science**
July 2009		
1-3 July 2009	Vienna, Austria	**9th Conference on Optical 3-D Measurement Techniques**
7-10 July	Salzburg, Austria	**GI Forum 09**
7-11 July	Cape Town, South Africa	**2009 IEEE International Geoscience & Remote Sensing Symposium (IGARSS)**
13-14 July	Oxford, UK	**GEOSENSOR NETWORKS 2009** Sponsored by: University of Oxford Papers to be published by Springer IMPORTANT DATES: Paper Submission: 3 April 2009 Notification of Acceptance: 27 April 2009

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		Camera Ready Papers Due: 5 May 2009 Conference: 13-14 July 2009
13-17 July	San Diego, CA, USA	**29ᵗʰ ESRI International User Conference** The deadline for abstract submissions has **CLOSED**
13-17 July	Cairns, Australia	**18ᵗʰ IMACS WORLD CONGRESS MODSIM09** International Congress on Modelling & Simulation "Interfacing Modelling and Simulation with Mathematical and Computational Sciences" Early Bird Registration closes Friday 13 March 2009 Submission and Acceptanbce of Abstracts has **CLOSED** Final papers submitted Friday 13 March 2009
21-24 July	Presidente Prudente, São Paulo, Brazil	**6ᵗʰ International Symposium on Mobile Mapping Technology – MMT2009**
24-6 July	Hyderabad, India	**3rd International Conference on HealthGIS 2009** Email Call for papers • Early Registeration 19 th June 2009
27 28 July **"NEW"**	New Delhi, India	**Geo Intelligence India** Email
July 27-31	Vancouver, Canada	**GeoWeb2009** GeoWeb 2009 organizers are currently seeking submissions for presentations and workshops. Details: All abstracts must be less than 200 words and be submitted via the online form no later than February 27, 2009. For all questions regarding the submission of abstracts and agendas please contact Julie Eckhart. Complete information on the call for papers process and conference may be obtained at http://www.geowebconference.org.
August 2009		

4 - 6 August
"NEW"
	Fairbanks, Alaska	**The GeoNorth 2009 conference** is a unique opportunity to discuss issues and present current research related to geospatial activities in the arctic environment. This conference provides an opportunity to present results associated with the International Polar Year (IPY), environment and climate change monitoring and geographic analysis, geospatial standards and their application, and the construction of virtual collaborative networks including Arctic mapping and the virtual Arctic Spatial Data Infrastructure (ASDI). The conference is coordinated by the USGS, the University of Alaska Fairbanks, and the IPY Program Committee.
		Sessions are planned for the following themes with a focus on the development, publication, and application of interdisciplinary data for analysis and re-use in the Arctic context:
		  * Societal, cultural, and indigenous mapping of local and traditional knowledge
		  * Imagery, remote sensing, and sensor networks for the arctic landscape
		  * Virtual globes, geo-browsers, and spatio-temporal data exploration
		  * Ocean data access and analysis
		  * Natural resource assessment in the Arctic
		  * Understanding and assessing changes on land and ice
		  * Climate and atmospheric data, trends, and analysis
		  * Forum on arctic mapping and the Arctic Spatial Data Infrastructure
		  * Geosphere and hydrosphere modeling
		  * Understanding geospatial standards and their application

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		The following website includes information on the conference, the Call for Papers, and registration details. We look forward to your participation!
4 - 7 August	Bali - Indonesia	**10th South East Asian Survey Congress** (SEASC '09) Hosted by Bakosurtanal (Indonesia's land information agency) Contact Website: < http://www.seasc2009.org/ >
3-14 August	Rio de Janeiro, Brazil	**XXVII General Assembly of the International Astronomical Union**
7 – 8 August	Darwin, Australia	**2009 IMTA Asia Pacific Conference Call for Papers** The International Map Trade Association is hosting an Asia Pacific conference and trade show. The theme is 'Connecting the Business of Maps in Australia's Top End'. The organisers have issued a call for presentations. Presentations may address any topic closely related to the geospatial industry. The deadline for applications is 24 April. International Map Trade Association contact Damien Demaj
August 12-14, 2009	Fairfax, Virginia, USA	**The 17th International Conference of Geoinformatics (Geoinformatics 2009)** George Mason University,
August 13-14	Perth, Australia	**2009 Australasian Mine Surveying Conference** The event will bring together mining industry surveyors and spatial professionals from Australia, South East Asia and the South Pacific. It is a joint venture between the Australian Institute of Mine Surveyors and the Spatial Sciences Institute. Email
August 16-19	Hong Kong	**10th Asian Urbanisation Conference** Email
August 18-20 "NEW"	Singapore	**Map Asia 2009** Email
24-27 August "NEW"	Canberra, Australia	**SEGS '09 (Spatially Enabled Government Summit)** Email
24-9 August "NEW"	Dresden, Germany	**Ist International Conference on 3-D Maps** http://kartographie.geo.tu-dresden.de/true3Dincartography09/
27-8 August	Bishnek, Kyrgyzstan	**GISCA '09 Conference (3rd Central Asia GIS)** **Call for Papers announced for GISCA'09 Conference** Contact **Submission of contributions:** May 1 - Submission of abstracts (min 500 words) June 1 - Notification of acceptance July 1 – Camera-ready copy of full papers (see authoring instructions!) Aug 1 – Registration for poster exhibit **Pre-conference events:** Aug 14-16 Joint ICA-UNIGIS summer school in Kashgar Aug 17-23 ICA-led field trip Kashgar-Lhasa return Aug 24-26 pre-conference summer school and various workshops in Bishkek
28-9 August	Bangalore, India	**The iGeoMap 2009 conference on urban infrastructure and geoinformatics.** The Indian Institute of Science and GIS Consultancy Sky Group are calling for paper submissions. The conference will address urban infrastructure issues and GIS practices.
September 2009		
2 - 4 September "NEW"	Nottingham, UK **LBS 2009**	**6th International Symposium on LBS & TeleCartography** Contact or Mrs Stella Fuller, Centre for Geospatial Science, Sir Clive Granger Building, University of Nottingham, Nottingham. NG7 2RD Tel: 0115 95 15445
2 - 5 September	Baška, Krk Island, Croatia	The Royal Institute of Navigation, London, UK, and the Institute of Engineering Surveying and Space Geodesy, University of

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"NEW"		Nottingham, UK have a pleasure in inviting you to participate to the **2nd GNSS Vulnerabilities and Solutions Conference** to be held on 2 - 5 September 2009 in Baška, Krk Island, Croatia. Extended abstracts should be submitted to Dr Renato Filjar, FRIN by e-mail no later than 1 May, 2009. Final decision regarding the paper acceptance will be reached by 1 June, 2009, when the authors of accepted articles will be notified of abstract acceptance and kindly invited to submit their papers (up to 10 pages recommended, in the Journal of Navigation-style format) by 15 July, 2009.
8 September **"NEW"**	Jena, Germany	The workshop **"Performance Evaluation of Pattern Recognition in Remote Sensing"** of the ISPRS Intercommission Working Group III/VII "Pattern Recognition in Remote Sensing" will be held in Jena, Germany, on 08th September 2009 in conjunction with the DAGM Symposium 2009. Date for Submission of Papers – 1 June, 2009 Author notification – 20 July Camera ready manuscript – 3 August Workshop – 8 September
8-10 September **"NEW"**	Tsukuba, Japan	**International Workshop on the Revision of Specifications for Global Map Version 2** The details will be informed on the ISCGM Website as soon as determined.
9-12 September	Beijing, China	**6th International Symposium on Digital Earth** E-mail **The deadline** for abstract submissions for the 6th International Symposium on Digital Earth (9-12 September, Beijing) **has been extended to 30 April** Secretariat,The 6th International Symposium on Digital Earth 14F, Kedian Tower, No.9 Beiyitiao Road, Zhongguancun, Beijing, 100190, China Tel: 86-10-58887298, Fax:86-10-58887406 Email for ISDE ISDE WEBsite
14-16 September	Beijing	**Emergency Management Conference** The international conference on **Geospatial Solutions for Emergency Management** (GSEM 2009) is being held in conjunction with the 50th anniversary of the Chinese Academy of Surveying and Mapping. The organisers are calling for papers on themes including data and image fusion, disaster management and new sensors. The deadline for abstracts is 31 March.
16-18 September **"NEW"**	Johannesburg, South Africa	**Map Africa** Email
21-25 September	Venice, Italy	**OceanObs '09**
October 2009		
4-8 October, **"NEW"**	Cleveland, Ohio, USA	**NSGIC(National States Geographic Information Council) 2009 Annual Conference**
5-7 October	Westminster, Colorado	More information will be forthcoming but we ask you to "save the date" for the **Location Intelligence Conference 2009**.We'll be at the Westin Westminster Hotel in Westminster, Colorado, just outside of Denver toward Boulder from Oct. 5-7
7 - 9 October 2009 **"NEW"**	Taipei, Taiwan	**GIS in the Humanities and Social Sciences 2009 International Conference.** This significant international Geographical Information Science event aims to bring together an eclectic mix of humanists and social scientists who have used GIS in their work. With a view to the development of GIS as an effective tool and approach for

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		disciplines in the humanities and social sciences, scholars considering using GIS and doctoral students are welcomed as well. Alternative URL **Abstract deadline: June 15, 2009.**
12-16 October	Kuala Lumpur, Malaysia	**FIG Commission 7 Annual Meeting and one-day International Symposium**
15 October 2009 **"NEW"**	Taichung, Taiwan	**2009 Urban Geographical Information System Forum** Contact
19-22 October **"UPDATED"**	Hanoi, Vietnam	**7th FIG Regional Conference** *awaiting Timeline for registration and submission of abstracts, papers, and presentations* Conference Website **Electronic submission of papers by 10 June 2009**
20-23 October **"UPDATED"**	Sydney, Australia	**FOSS4G 2009 Call for Abstracts** **Email** The Organising Committee would like to welcome all interested participants to submit abstracts for presentations for the Free and Open Source Software for Geospatial conference (FOSS4G), being held in Sydney, Australia October 20-23. FOSS4G offers participants an opportunity to learn from and share your knowledge, experience and ideas with a group of like minded individuals representing a wide array of industries, governments, technologies and nationalities. Presentations are open to all those interested and will comprise a 30 minute slot which includes hand-over, introductions and 5 minutes for questions. Presentations will be selected which have a strong "Open Geospatial" theme to them. The committee is looking for a mixture of technical and non-technical presentations. Email2 **The Academic community and FOSS4G organising committee are pleased to add an academic track to the FOSS4G conference, and remind interested presenters that there are only two weeks left for FOSS4G abstract submissions! Abstract submission closes 8 June 2009. (Note the deadline has been extended a week.)** < http://2009.foss4g.org/presentations/ > < http://wiki.osgeo.org/wiki/FOSS4G_2009_Press_Release_14 >
25 October **"NEW"**	Bangkok, Thailand	**16th Meeting of ISCGM (International Steering Committee for Global Mapping)**
26-30 October **"NEW"**	Bangkok, Thailand	**18th UNRCC AP/15th PCGIAP Meeting**
26-29 October	Kampala Uganda	**AFRICAGIS 2009; International Conference** Theme of the conference "GEO-SPATIAL INFORMATION AND SUSTAINABLE DEVELOPMENT IN AFRICA; FACING CHALLENGES OF GLOBAL CHANGE"
November 2009		
10-12 November	St Petersburg, Florida, USA	**Fifth National GIS in Transit Conference** This biennial conference will focus on the growing role of GIS in supporting planning, service delivery, and decision making in public transit. The Programme Committee will organise an educational programme based upon the abstracts submitted through the Call for Participation. All abstract submissions, received by February 27, 2009, will be reviewed and considered for this conference. The Program Committee encourages abstract submissions in one or more of these four general categories - Applications, Tools, Data, and Management & Policy. Website: http://www.urisa.org/gis_transit

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15-22 November	Santiago, Chile	**XXIV International Cartographic Conference** First call for papers **Deadline for Abstracts**: 16 January, 2009
16 – 19 November	San Antonio, Texas, USA	**ASPRS / MAPPS 2009 Fall Conference**
17-20 November	Denver, USA	**7th William T. Pecora Memorial Remote Sensing Symposium** E-mail
30 November - 2 December	Sydney, Australia (Univ NSW)	**GeoComputation 2009** **Call for Papers** **The 10th International Conference on GeoComputation** Contributors are invited to submit extended abstracts, which will be reviewed for inclusion in the conference program. The abstracts should be sent as either Word documents or pdf files to geocomputation@unsw.edu.au Files larger than 1Mb should be sent as zipped archives. The submission deadline is **30 June 2009**. Authors will be notified of acceptance/rejection in the end of August 2009. Any questions regarding the submission and publication process should be addressed to geocomputation@unsw.edu.au
December 2009		
1 – 3 December	Gold Coast, Australia	Organisers of the **International Global Navigation Satellite Systems Society's (IGNSS) 2009** symposium and exhibition (1-3 December, Gold Coast, Australia) are calling for papers. Abstracts should be submitted by 17 July 2009. The Society will present three award plaques on the last day of the symposium for the best papers and exhibition booth. IGNSS 2009
1 – 3 December	Moscow, Russia	**Scanex 4th International Conference "Earth from Digital Space – the most effective solutions"** Email
April 2010		
11-16 April	Sydney, Australia	**International Federation of Surveyors (FIG) Congress 2010** Contact email **The deadline for submission of abstracts is 22 September 2009.** Alternative URL:
Date to be announced	Taipei	**ASIA GIS 2010 Conference** further details to be announced

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