

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 July edition of the newsletter.

This month the SDI spotlight feature has been held over. We had been hoping to provide a comprehensive round-up of news from the GSDI 11 Conference in Rotterdam. Unfortunately our returning attendees were still suffering “jet lag” and the report will be in the August newsletter. We can of course note and congratulate Professor Abbas Rajibifard on his election to the presidency of the GSDI Association. Further, the details for GSDI 12 are that this conference will be in Singapore from 18-22 October, 2010.

Global Spatial Data Infrastructure Association Seeks Feedback - The GSDI Association will soon vote on the possible creation of a new membership arm for individuals and we want your advice. It is currently possible to join the GSDI Association as an individual member but one receives currently few benefits by doing so. The Board would like to attract to the new individual membership category practitioners and academics that have substantial GIS or related experience that could aid peers in advancing standards based spatial data infrastructure developments across the globe as well as learn from each other. [Take the survey](#)

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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.

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.

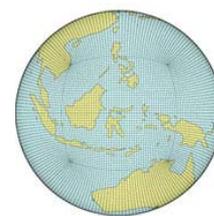
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SDI News, Links, Papers, Presentations

[Improved climate change projections for SE Asia](#)

Detailed climate change projections for Indonesia, Vietnam and the Philippines are being developed at a workshop in Melbourne involving climate scientists from all three countries. The workshop is part of a year-long project being carried out by the CSIRO Climate Adaptation National Research Flagship and the Indonesian Bureau of Meteorology (BMKG). Based on the strong similarities between Northern Australia and Indonesia it makes sense to share knowledge of future climate scenarios. Regional climate simulations are being completed at a 60km resolution using six global climate models for the periods: 1971-2000, 2041-2060, 2081-2100.

Source: CSIRO



[Geographic Distribution of Physicians in Japan](#)

Japanese government policy since the late 1980s has aimed to decrease the number of medical students, which has resulted in shortages of trained medical personnel. A study to compare the numbers of physicians in Japan between 1996 and 2006 and the trends in distribution concluded that while the number of doctors was rising, the distribution of doctors was far from ideal as revealed by maps and statistics. This type of analysis may be helpful to all countries trying to enhance healthcare across the rural/urban divide.

Source: Directions Magazine

[OGC Calls for Sponsors for Major Interoperability Testbed](#)

The Open Geospatial Consortium (OGC®) has issued a call for sponsors of the OGC Web Services, Phase 7 (OWS-7) Testbed. OGC also seeks to establish alliances with standards bodies having technology relevant to this initiative. OWS-7 will develop interoperability specifications in the areas of Sensor Web Enablement, geoprocessing workflows, 3-dimensional information management, events and security architecture, aeronautical information systems, enterprise web services, mass-market geoservices and compliance testing of OGC standards.

Source: Open Geospatial Consortium

[Pacific Disaster Center's Natural Hazards and Vulnerabilities Atlases](#)

The Pacific Disaster Center (PDC) has produced three versions of the Hazards and Vulnerabilities Atlas: the Global, Asia Pacific and Hawaii Editions. These are powerful decision support toolsets for disaster management and humanitarian assistance organisations around the world. The Atlas can be [viewed at](#)

[The Asia Pacific Natural Hazards and Vulnerabilities Atlas](#)

The Asia Pacific Edition, is the original edition in the Atlas family and includes all the traditional information contained in the Global Edition, but presented with a "Pacific-centric" view for situational awareness across the

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Pacific Basin. More than half the world's population lives in the Asia Pacific area on about one-fifth of the earth's land. As natural disasters increase in both intensity and severity around the world, the Asia Pacific region continues to suffer a disproportionate number of hazard events and related losses of lives, infrastructure, stability and economic progress. In 2006 alone, there were 457 significant natural disasters in the world (up from about 125 in 1975) and 187 of them, over 40 percent, took place in Asia. In that same year, over 88 percent of those adversely affected by natural disasters and nearly 60 percent of those killed were in Asia.

[Preview available Asia Pacific Atlas data layers](#)

PDC's Global Natural Hazards and Vulnerabilities Atlas The Global Edition builds on the rich data resources that have been available in regional PDC Atlas products for many years, allowing users to view historical and near-real-time hazards at a global scale and extent. Combined with traditional information such as population, major roads, waterways, cities, regional boundaries, and various risk information layers, the Global Edition includes several new information feeds. In order to present a more comprehensive view of hazard events around the world, activations of the International Charter "Space and Major Disasters" and the Global Identifier Number, or GLIDE, are included along with links to all captured information regarding the hazard in the PDC Enterprise Geospatial Database. [Preview available Global Atlas data layers](#)

Source: Kate Lance

[Starting the Satellite Technology for the Asia-Pacific Region \(STAR\) Program](#)

The Japan Aerospace Exploration Agency (JAXA) is inviting members from six space agencies^{*1} in the Asia-Pacific Region to participate in the Satellite Technology for the Asia-Pacific Region (STAR) Program, which JAXA introduced at the Asia-Pacific Regional Space Agency Forum (APRSAF) held in 2007. The STAR Program will be conducted from 1 June 2009 (TBD), and activity at JAXA's Sagami-hara campus has already begun. Further information outlining the background, opportunities and activities are available from JAXA:

Source: [Japan Aerospace Exploration Agency \(JAXA\)](#) and Wonkug Baek

[Can Non-Government Spatial Data Infrastructure Exist?](#)

This article by Jeff Thurston discusses the opportunities for SDI within and outside the government sector. One of the main limitations outside the government sector is the willingness for organisations to share spatial data. "When we think about spatial data infrastructure (SDI) we often think about governments. Most SDI originate within government related organisations and are often stimulated by the introduction of funding structures that enable them, specifically. It stands to reason that some SDI could exist without government association, operating independently and for their own purposes. After all, not all private companies operate with governments as clients, but instead operate solely on a business-to-business orientation."

Source: Vector1Media

[Global Roads Open Access Data Set \(gROADS\) Solicits Improved Roads Data](#)

The current lack of high quality public domain roads data in Asia has seriously hampered disaster response by humanitarian agencies and resulted in many inefficiencies as organizations have had to obtain proprietary data or build their own roads data to suit specific applications (e.g. for development research, regional planning, etc.). The Global Roads Open Access Data Set (gROADS) is an initiative of the International Council of Science's [CODATA](#) Global Roads Working Group that seeks to fill this gap. gROADS has been endorsed by the Global Spatial Data Infrastructure Association ([GSDI](#)), GISCorps of the Urban and Regional Information Systems Association (URISA), and the United Nations Global Alliance on Information and Communication Technology for Development ([UN-GAID](#)). The goal is to create a global roads data set that is: (a) globally consistent (using the [UNSDI-Transport](#) data model); (b) spatially accurate (~50m positional accuracy); (c) topologically integrated; (d) up-to-date; (e) well documented; and (f) freely distributed but with acknowledgement to those who have contributed to its creation.

As a first step in creating this data set, gROADS is soliciting spatially accurate data with at least minimal attribute information (e.g., specification of road type or quality) for inclusion in gROADS. gROADS is creating the infrastructure necessary to update these data in a distributed manner, so that those who contribute data can expect, within a three to four year time frame, to see improvements to their original dataset through the inputs of a wider community. These data will then be available to their organization/agencies as well as others who may have need of updated data. Semi-automated means for facilitating distributed contribution of GPS tracks and digitizing tracks off of imagery are both being pursued as well as efficient means for gathering information about road characteristics. Any enhancements will be clearly documented in terms of the source of the updates. Thus, contributors obtain continuing visible credit for any contributions because each data source will be documented

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in the accompanying data documentation. Furthermore, organizations will be listed as a supporting data contributors on the [gROADS](#) Web site. You may highlight on your own website that your organization is a recognized official contributor of gROADS, and your organization will be granted authority to use the trademarked gROADS contributor logo in conjunction with this statement.

For more information, or to contribute data, please contact [Alex de Sherbinin](#) at CIESIN, Columbia University, at and tel. +1-845-365-8936, or visit [gROADS](#).

Source: Alex de Sherbinin and Kate Lance.

[Probing the depths of coastal waters: opto-acoustic underwater remote sensing](#)

Australian CSIRO scientists are developing an airborne remote-sensing instrument that measures water depths even when the water is turbid.

Source: CSIRO and [GIS Development](#) (15 June, 2009)

[Australian Geospatial Economic Impact Report Update](#)

In November 2007, ACIL TASMAN, an economic consultancy in Australia, released a [ground-breaking study](#) on the impact of geospatial technology on the Australian gross domestic product (GDP). That report stated, "The impact on GDP in 2006-07 of the spatial information industry is estimated to range between \$6.43 billion and \$12.57 billion for the quantifiable lower bound and estimated realistic scenario respectively." Joe Francica contacted Alan Smart, lead author of the report, to get an update on that study's impact since its release.

Source: [Directions Magazine](#)

[Chinese-Australian Spatial Relations](#)

The Chinese ambassador to Australia, Zhang Junsai, has called for improved co-operation between China and Australia in the development of spatial technology. The ambassador pointed out that a considerable amount of co-operation already exists between the two countries. Chinese authorities sent satellite data to Australians managing bushfires in Victoria in February. Australian researchers sent important data based on radar interferometry to China during the Wenchuan Earthquake last year.

Speaking at a conference in Canberra on 15 June, he pointed to existing relationships between Wuhan University, China's principal source of geospatial skills, and the major spatial research organisation in Australia, the Co-operative Research Centre for Spatial Information.

Source: [Asian Surveying & Mapping](#)

[Researchers plan 3D reef mapping](#)

Queensland researchers are hoping to get a better view of largely unknown parts of the Great Barrier Reef.

Two James Cook University professors have been awarded fellowships to draw a three-dimensional map of the reef and the Coral Sea within three years.

It will allow oceanographers to map currents and biologists to study deep-sea marine life.

Dr Robin Beaman says the deepest part of the reef is two kilometres down - and most of our knowledge covers only the top 200 metres.

Source: ABC (Australia) News

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SDI Spotlight

Between the 15th and 19th of June the 11th Global Spatial Data Infrastructure (GSDI) conference was held in Rotterdam. The theme for the conference was Spatial Data Infrastructure Convergence: Building SDI Bridges to Address Global Challenges. As already noted the proposed report has been held over and will be included in the August newsletter. A number of news reports about the conference are now available and have been assembled below. Readers should note that the GSDI 12 Conference has been set down for Singapore on 18-22 October, 2010



(Source: [GIM International](#))

[GSDI 11 – Special Report](#) courtesy of GIS Development Weekly

[GSDI Conference Underway](#) courtesy of GIM International

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The editors are actively soliciting contributions to the monthly “SDI Spotlight” feature for the July and subsequent issues.

GIS Tools, Software, Data

[Intergraph\(R\) Launches New Spatial Data Infrastructure \(SDI\) Application](#)

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

Source: GIS Cafe

[DMCii satellite imaging monitors Indonesian forests](#)

DMC International Imaging Ltd (DMCii) has won a €100,000 contract from the European Space Agency (ESA) to demonstrate the value of its coordinated, multi-satellite optical imagery for tropical forest monitoring in Indonesia.

Source: [GIS News](#)

[IIT Mumbai's low-cost GIS software for resource management](#)

The Indian Institute of Technology (IIT) here has developed a low-cost Geographic Information System (GIS) software which can be used for resource management by community development programmes, government sectors, NGOs and industries.

Source: [GIS News](#)

[Satellite Observations Reveal Extent of Australian Drought](#)

Australian researchers conducted an in-depth assessment of the Murray -Darling Basin using data from the Gravity Recovery and Climate Experiment (GRACE) satellite to understand the extent of the drought. Findings indicate that the basin has lost 200 cubic kilometers of water over the past six years.

The study, published in [Water Resources Research](#), provides a more integrated approach for drought study that accounts for total water deficit from a wide area, taking into account the loss of surface water, soil moisture and groundwater. The regional study, at the water basin scale, provides a new understanding of severe drought conditions and their affect on groundwater.

Source: [Spatial Sustain](#)

[3D View of Tainan City](#)

The 3D GIS developed by Pilotgea Technologies in Taipei for the Tainan City government has now been implemented. It contains 3D models of buildings, cadastral maps, topographic maps, colour orthophotos, a digital elevation model, the road network, building numbers and important landmarks. Users can view the data from any perspective.

Source: [Asian Surveying & Mapping](#)

[AutoCAD 2010 free for Student Engineering and Design Community](#)

[Autodesk](#) is working on AutoCAD 2010 software, its flagship product for 2D and 3D design and documentation. The software will be available for free to members of its global Student Engineering and Design Community.

Source: GIS Development

[New online GIS mapping service available on RDC website](#)

High-quality aerial photography, contours and property, as well as electoral boundary information for the Rodney district - and the rest of the Auckland region - can now be viewed online.

The new online service available at <http://maps.auckland.govt.nz> features an easy-to-use search function, so users can find a location using a property address, road name, place name or legal description.

Source: [iWorld People](#) and [GIS Development](#)

[Joint effort of UNESCO and Norway to preserve Pakistan culture](#)

Norway and Pakistan would carry out mapping of tangible and intangible cultural assets in NWFP, focussing initially on seven districts, in collaboration with UNESCO

Source: GIS Development

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The live webcast of the Open Source GIS conference (Stream 1 Presentations) will be active from 9:15 GMT on 22 June (Monday) at <http://uiwapmids01.nottingham.ac.uk:8000/winnov> .

We hope that those of you unable to attend the conference will be able to join us through this live webcast. The presentations and recordings will also be available on the OSGIS 2009 Conference site

<http://www.opensourcegis.org.uk/> after the conference for the benefit of the wider Geospatial Community.

Thanks to [Dr Suchith Anand](#).

River Restoration in Korea

Korea is to engage in a major engineering project to protect the country from flooding of its major rivers. The work will also provide new reservoirs for water security and hydro-electric power. The work is a response to climate change, which is leading to both longer periods without water and more extreme rainfall.

Source: Asian Surveying & Mapping

Measuring the Great Wall of China

How long is China's Great Wall? Recently, the International Society of Photogrammetry and Remote Sensing sponsored a project to determine the true length of the wall. ISPRS president Chen Jun was the chief scientist on the project. He led a team of about 800 professionals from geomatics and cultural heritage disciplines.

Source: Asian Surveying & Mapping

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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.

CBERS images offered free to the world

The Brazilian government informs that Egypt will soon start receiving images from the CBER satellite, which is jointly owned by Brazil and China. A memorandum for expanding the satellite's reception to three stations in Africa was signed, during president Luiz Inácio Lula da Silva's trip to China.

In addition to the one in Egypt, stations in the Canary Islands and in South Africa will also receive the signal. Images from the Cbers are distributed free of charge, but require a reception system in order to arrive in the countries.

Source: [GIS News](#)



Uganda Wetland Spatial Analysis Aims to Mitigate Poverty

Is poverty reduction related to wetlands management? Perhaps. A new report from the World Resources Institute and partners suggests that better management can aid the entire country. And now, decision makers have something they've not had before: effective maps.

Source: *Directions Magazine*

Azerbaijan Property Registration System

Azerbaijan's State Committee of Land and Cartography says an aerial photography and satellite survey is underway. The survey is part of the government's Real Estate Registration Project, which aims to develop a property registration system for the country's real estate market. The system will also help to manage state property.

Source: [Asian Surveying & Mapping](#)

U.S. NAIP Expands to Cover More States in 2009

The U.S. Department of Agriculture recently announced that the Farm Services Agency (FSA) would allocate the full \$24 million available to the 2009 [National Agriculture Imagery Program](#) (NAIP).

NAIP will also attract additional partnership funds from federal and state agencies increasing the expenditure to approximately \$30 million. This event reflects well on the efforts of the entire geospatial community to realize [Imagery For The Nation](#) (IFTN) as a viable national program

The expanded coverage of 32 states -- against the original plan of 15 states -- means that roughly two-thirds of the country will obtain much-needed imagery. This of course will have a very positive impact on the public, and the federal, state and local agencies that use NAIP. Many states are already seeking to procure enhanced products. Efforts are underway to increase and secure additional NAIP funds in the coming years to obtain

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complete coverage.

Click here for an interactive status map of NAIP acquisitions from 2003 - 2008. Click here for a map of 2009 acquisitions.

Source: Wonkug Baek and <http://wrpinfo.org/News.aspx?ID=182>

Mountain map' to the aid of rescuers

A new mapping tool that allows mountain rescue teams and the emergency services to share search data has been created. The software, being given to Scotland's 24 mountain rescue crews, will enable them to co-ordinate searches and map the progress of missions.

The system has been launched as figures published by the Scottish Mountain Rescue Committee showed there were 20 deaths on Scotland's mountains in 2008. According to the organisation there were 387 incidents last year. The news comes as Community Safety Minister Fergus Ewing, a former member of Lomond Mountain Rescue team, announced £300,000 of funding for the Mountain Rescue Committee.

Source : BBC News and [GIS News](#).

[The Nature Conservancy](#) teamed with [The University of Washington](#) and [The University of Southern Mississippi](#) to create [ClimateWizard](#). The goal of the interactive mapping application is to help people visualize climate change over time, anywhere on the Earth.

Source: Directions Magazine.

4-Inch Pixel Aerial Imagery View of Southern California Offers Details for Today's Customers' Demands

Source: [Eagle Aerial Press release](#)

A movable border - How global warming can shrink glaciers and alter the Italo-Swiss border

ONCE frontiers were changed by armies. Now the job is done by global warming. Italy and Switzerland are preparing to make—or rather to recognise—alterations to the border that runs through the Monte Rosa massif of the Alps. Despite what romantically minded locals may say, the name of the massif has nothing to do with the pink blush its peaks acquire at sunset. It comes from a dialect word meaning glacier.

The massif has nine glaciers. In several places the line between the two countries is set at the watershed. Because of global warming, the glaciers have shrunk, so the watershed has shifted, “in some places by as much as ten metres”, says General Carlo Colella of Italy's Military Geographic Institute in Florence. In January, after four years of work by the general and his staff, Silvio Berlusconi's cabinet approved a change in the frontier.

Source: *The Economist*

Cadastral System Better Manages Real Estate Parcels in Istanbul

The Istanbul Water and Sewerage Administration (ISKI) provides potable water to a city with a population of more than 11 million. ISKI manages all types of groundwater and surface water resources to provide a domestic potable water supply, which it distributes to demand centers within the city, and conducts studies necessary to design and build new facilities and carry out the maintenance and repairs to existing facilities.

Source: V1 Newsletter.

U.S. FWS announces availability of Cadastral Geodatabase

The Cadastral Data Working Group of the U.S. Fish and Wildlife Service announces the availability of its Cadastral Geodatabase. This GIS data reflects the boundaries of the entire National Wildlife Refuge System, as well as the parcel data.

This data is current as of May 1, 2009. A revised dataset, reflecting updates and any needed corrections, will be posted in November 2009.

For those desiring data for a specific Region: in ArcMap, select using the attribute FWSREGION. The Regions are listed by name and Region number in the Unique Values.

The design and compilation of the cadastral geodatabase is the result of many years of effort by FWS Cartographers and GIS Specialists.

To [learn more](#) about the FWS Cadastral Geodatabase.

Source: thanks to Baek.

First Nations and Native Tribal Government Geographic Information System (GIS) Workshop

The National Congress of American Indians (NCAI), in collaboration with GeoConnections and the U.S. Federal Geographic Data Committee (FGDC), hosted the “First Nations and Native Tribal Government Geographic

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Information System (GIS) Workshop” on June 14, 2009 in Niagara Falls, NY, as part of the NCAI Mid-Year Conference. The workshop demonstrated the benefits that spatial data infrastructures bring to land and resource management, enhanced understanding of the application of geospatial technologies to matters of importance to Aboriginal communities, and provided a networking forum to encourage future cross-border collaborations between Aboriginal and Tribal communities and also with provincial, territorial, state and federal governments.

SOURCE: thanks Baek and [NCAI](#).

[Air France Flight 447 Recovery assisted By U.S. Coast Guard and advanced Technology](#)

U.S. Coast Guard search and rescue (SAR) experts based in the Portsmouth Virginia Rescue Coordination Center assisted officials at the Rescue Coordination Center in Gris Nez, France, with the search for Air France Flight 447 by providing information and advanced technology to help locate the plane's fuselage as well as recover passengers and crew who were lost in the crash.

Source: Directions Magazine

The [Environmental Defense Fund](#) has launched an interactive [Green Economy map](#) that provide information about companies "involved in green business, energy generation, energy efficiency and transportation" in California. The map shows part of Los Angeles and surrounding cities.

Source: Environmental Defense Fund and directions Magazine.

[Revised Upward estimate of Planet Earth lifespan](#)

The Earth could be habitable for another 2.3 billion years, extending previous estimates of life's horizon by more than 1 billion years.

Source: Wired Science

[Using satellites to predict the next disease outbreak](#)

IN DECEMBER 1997 large numbers of cattle, goats and sheep began dying in the Garissa district of north-eastern Kenya. A month later people started dying, too. It was, at the time, the biggest recorded outbreak of Rift Valley fever in east Africa. Some 100,000 stock animals succumbed and about 90,000 people were infected—hundreds fatally—in five countries.

Ten years later the same thing happened. Or, rather, it started to happen but was stopped in its tracks. The difference was that the second time around there was warning. In September researchers at the Goddard Space Flight Centre in Greenbelt, Maryland, part of America's space agency, NASA, told the authorities in Kenya that they had a problem. They told them again in October. And again in November. By the time the epidemic emerged, the Kenyan health ministry had dispatched teams to the area to distribute mosquito nets and urge village leaders and religious authorities to stop people slaughtering and eating animals. Though the outbreak still killed 300 people in Kenya, Somalia and Tanzania, it could have been a lot worse. According to Kenneth Linthicum of America's Department of Agriculture, the number of deaths would probably have been more than twice as high without the warning.

The warning itself was possible because of a model of how disease spreads that Dr Linthicum helped design. And the data that were plugged into that model came from satellites.

What the researchers at Goddard had noticed at the time of the first outbreak was that in the months preceding it, surface temperatures in the equatorial part of the Indian Ocean had risen by half a degree. These higher temperatures brought heavy and sustained rains, cloud cover and warmer air to much of the Horn of Africa. Mosquitoes multiplied wildly—and lived long enough for the virus that causes the fever to develop to the point where it is easily transmissible. In September 2007 the researchers saw the same thing happening in the ocean, and suspected the same consequences would follow.

Source: The Economist (UK).

[The TerrAfrica Knowledge Base is now operational:](#)

The Knowledge Base is an interactive website developed by the TerrAfrica Partnership to facilitate the access, the exchange and methodical accumulation of key knowledge to implement Sustainable Land Management (SLM) in Africa. Information resources available on the site include text documents, multimedia documents, maps, statistics and websites, both in English and French. Users can access information using a simple free-text search or by more advanced options such as searching by country, TerrAfrica activities, keywords, etc. Registered users can also add new resources, browse the community directory and post messages in the forum. The Knowledge Base connects SLM stakeholders, fosters collaboration and promotes the scaling-up of SLM practices across Africa.

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The TerrAfrica Partners are the World Bank, FAO, UNCCD, & NEPAD

Source: Dr. Christian CREPEAU, GIS, Remote Sensing, Mapping, Metadata, Opensource Geospatial Data

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Articles

Social networks in spatial data infrastructures

P. A. J. van Oort, G. W. Hazeu, H. Kramer, A. K. Bregt and F. I. Rip (2009) "Social networks in Spatial data infrastructures", GeoJournal, Springer Netherlands. Published online: 12 June 2009.

Abstract Data sharing over the internet is increasingly efficient and increasingly anonymous. This growing anonymity makes it difficult for data users to exchange feedback: interesting ideas, innovations, ancillary data, concerns about data quality, etcetera. For data producers not knowing the end-users makes it more difficult to collect end-user feedback and tailor the production process to users needs. Feedback can be exchanged through social networks, in other words contacts with other users. Very little is known about such social networks in the case of data sharing. In this paper we present an analysis of the social networks associated with two land cover datasets. We found that most users have zero to two links to other users and virtually no links to users in other her organisations. Without these links, it seems almost impossible to identify users of a particular dataset. Internet technology can help but is currently not used to enhance exchange of feedback within the user community.

Source: [SpringerLink](#)

Advantages of GIS Over Maps? Read this article in [V1 Magazine](#)

Can Non-Government Spatial Data Infrastructure Exist? By Jeff Thurston (V1 Magazine)

NASA Uses Satellite to Unearth Innovation in Crop Forecasting

Soil moisture is essential for seeds to germinate and for crops to grow. But record droughts and scorching temperatures in certain parts of the globe in recent years have caused soil to dry up, crippling crop production. This article, by NASA's Gretchen Cook-Anderson, describes how NASA researchers are using satellite data to deliver a kind of space-based humanitarian assistance.

Source: Directions Magazine and [NASA](#).

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 Prioritization
- 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

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- Habitat Mapping of Aitutaki, Cook Islands
Thanks to KL for drawing this to our attention

gvSIG documentation

gvSIG continues growing thanks to the very important effort its community is doing in translating the project documentation to the maximum amount of possible different languages.

The work of the several translation groups is showing results and among the newest and finished translation results in the gvSIG website are:

- The gvSIG 1.1 developer's manual in English [1]
- The gvSIG 1.1 user's manual in Italian [2] (also available in pdf format [3])

Recently it was announced the translated user's manual to Russian [4] and in shortly it will be incorporated in to the gvSIG website. Other teams continue their work. The German [5] and French [6] translation of the gvSIG 1.1 user's manual is very far in its development.

The gvSIG team considers that the translation of the documentation is a key component for the communication of the project. That is why it is encouraging people interested on collaborating in this way with the project to contact gvSIG@gva.es.

The gvSIG team is especially interested in the participation of translators from Spanish to English because Spanish is the main language of the documentation. At the same time, the availability of this documentation in English will facilitate the translation to other languages.

About the gvSIG interface, the portuguese-brazilian translation is now available [7] to load in gvSIG 1.1.2. To that end, the Translation management extension [8] must be installed over gvSIG 1.1.2.

PostGIS in Action (Early Access Edition)

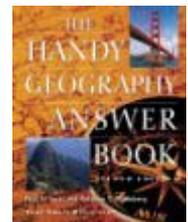
This Early Access version of PostGIS in Action enables you to receive new chapters as they are being written. You can also interact with the authors to ask questions, provide feedback and errata, and help shape the final manuscript on the Author Forum. Available at <http://www.manning.com/obe/>.

Asian Surveying & Mapping Newsletter Now Weekly

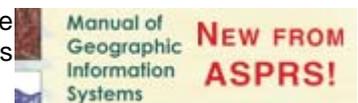
From 5 June, the ASM newsletter will be emailed to subscribers every week, instead of every two weeks. This change is designed to provide our readers with more up-to-date news. If you have not yet signed up for this free service, you can [subscribe here](#).

The Handy Geography Answer Book

From discovering why every map is distorted to why Rhode Island is called an island even though it's not, this comprehensive reference simplifies geography in an approachable question-and-answer format. All aspects of the discipline are covered, including physical, economic, political, and cultural geography. Questions answered include Who carved Mount Rushmore? What is the average life expectancy in Japan? and What were the seven wonders of the ancient world? Ideal for students and teachers, this resource is for all those curious about our world. From Visible Ink Press, 2009.



The ASPRS Manual of Geographic Information Systems is a comprehensive resource for anyone interested in assessing landscapes, building geodatabases and integrating geospatial technologies.



Geographic Data Mining and Knowledge Discovery



This second edition reflects the current state of the art in the field. It includes updated material on geographic knowledge discovery, geographic data warehouse research, map cubes, spatial dependency, spatial clustering methods, clustering techniques for trajectory data, INGENS 2.0, and geovisualization techniques. Recognizing the growth in mobile technologies and trajectory data, this edition provides five new chapters on knowledge discovery from spatiotemporal and mobile objects databases. It also contains new chapters on data quality issues, medoid computation, geographically weighted regression, and an integrated approach to multivariate analysis and geovisualization. From CRC, 2009.

I'll Never Get Lost Again: The Complete Guide to Improving Your Sense of Direction

Many people have a poor sense of direction. This work explains humorously why some people never get from A to B and what, if anything, they can do about it. From children to doctors, the author shows

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why otherwise competent people become easily disorientated and are often unable to find their way. From RDR Books, 2009.

NEW GIS Book—a comprehensive guide and reference for GIS managers

The GIS Management Handbook by Peter L. Croswell, PMP, GISP, ASPRS-CMS

Kessey Dewitt Publications in association with URISA, hardcover, 320pp, ISBN13: 978-0-9824093-0-5

The book is comprehensive guide and reference to the field of GIS management. It provides information on the development, implementation, and operation of GIS programs and projects. This book takes a practical approach covering concepts and practices on a full range of GIS management topics of interest to GIS professionals.

Full price: **\$110** plus shipping and handling

Discounted price: **\$85** (in effect until August 31, 2009)

To order [on-line and access details](#) about book content.

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Just for Fun !

Antarctic Emperor Penguins map their own breeding colonies

Using satellite data, the scientists found 10 new colonies of penguins, six colonies that had moved from previously mapped positions to new spots and another six that seemed to have disappeared. Overall, 38 colonies were spotted from above, according to Fretwell's paper, "Penguins From Space" in the journal *Global Ecology and Biogeography*.

Emperor penguins are the only penguin species that breed on sea ice; and while ice formed on land may be discoloured by impurities such as moraine, sea ice is formed only from sea water and contains no such impurities. The black and white colouring of the emperor penguins makes them blend into the shadows on white sea ice, so they can be practically invisible in low resolution satellite images. However, these satellite images can detect the guano (faeces) of large groups of penguins, which stains the sea ice light brown.

Source: BBC News

URL Shortener for Google Maps

One problem with internet mapping services, such as Google Maps, is the length of the URL displaying your desired location. Now, a Brisbane-based company called Social Horizon has come up with a tool that they claim is the world's first to makes Google Maps URLs manageable.

Source: [Asian Surveying & Mapping](#)

OOPS !!!!!!!!!!! Wrong again !!!!!!!!!!!

A Georgia (USA) man said he received a phone call saying the three-bedroom house his father built had been successfully demolished -- by mistake.

He said the demolition company told him the work crew's paperwork and GPS coordinates had led them to the home. He theorized the vacant house across the street was the house sought by the company.

Source: [UPI](#) and Directions Magazine [blog](#).

Sporcle: The New Geography Game

Actually, the online quiz website, [Sporcle.com](#), has many categories, but the geography area is particularly popular. Who's using it? College students. And, they are not using it to study per se, but for recreation and to jazz up dull geography club meetings according to the [Boston Globe](#).

Source: Directions Magazine [blog](#).



Street View versus Street Violence

Victim spots 'robbers' following him on Google "Street View"

Dutch police have arrested twin brothers on suspicion of robbery after their alleged victim spotted a picture of them following him on Google's Street View map application.

Paul Heidanus, a police spokesman in the town of Groningen, said he believed it was the first time Street View images had been used in a Dutch criminal investigation.

A 14-year-old boy told police in September that he had been robbed of €165 (£140) and his mobile phone when two men had dragged him off his bicycle in Groningen, north-east of Amsterdam.

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The boy called again in March after seeing an image of himself and two men that he believed were his attackers on Street View, police said.
Prosecutors sent a formal request to Google for the original photo because people's faces are blurred on Street View in line with Google's privacy policy.
The company complied and a robbery squad detective immediately recognised one of the twins.
Source: [The Daily Mail](#) and the [UK Independent](#).

Soft-Maps (c) are handmade quilted maps of Brooklyn (New York) neighborhoods and parks that represent a unique personal place in the city. The artist/cartographer [Emily Fisher's website](#) is well worth a visit.
Source: [Haptic Lab](#) and [Directions Magazine](#).

Training Opportunities

[Upcoming ITC Refresher Courses](#)

[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

[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

[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](#).

[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:

For more information go to [Website](#).

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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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Funding Opportunities, Awards, Grants

[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

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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 was April 30. Professor Xu welcomes enquiries from students seeking information for later years.

Source: Asian Survey & Mapping

[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.

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](#).

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

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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/> >

The 2009 European Satellite Navigation Competition

GRACE (GNSS Research and Applications Centre of Excellence) of the University of Nottingham is holding a workshop for organisations and individuals planning to submit an entry into the 2009 European Satellite Navigation Competition.

ESNC (European Satellite Navigation Competition) Ideas Workshop - University of Nottingham, 1st July 2009

Entry into the competition closes on the 31st of July and this is your opportunity to;

- learn more about this year's competition
- hear from the experiences of previous winners
- have confidential one on one discussions about your idea with
- Competition judges
- GNSS experts
- Business advisors

The overall winner will receive a €20,000 prize and this year, GRACE will provide the winner of the UK competition with up to £5000 worth of support in developing their idea further.

Judging of the UK winner will take place during September 2009 with the overall European winner being announced at the Munich Systems Fair on the 21st of October 2009.

Further [details about the competition](#).

More [details of the event](#); You can [book online](#) - Places are limited; To enter the competition, [please visit](#)

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> >

Conferences, Events

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

[The Terra Cognita 2009 Workshop](#) is soliciting papers in conjunction with the [8th International Semantic Web Conference, \(ISWC 2009\)](#).

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

Date	Location	Event
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

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		Notification of Acceptance: 27 April 2009 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 Acceptance 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 <ul style="list-style-type: none"> • Early Registration 19 th June 2009
27 28 July	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	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: <ul style="list-style-type: none"> * 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

		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	Singapore	Map Asia 2009 Email
24-27 August	Canberra, Australia	SEGS '09 (Spatially Enabled Government Summit) Email
24-9 August	Dresden, Germany	1st International Conference on 3-D Maps http://kartographie.geo.tu-dresden.de/true3Dincartography09/
27-8 August	Bishkek, Kyrgyzstan	GISCA '09 Conference (3rd Central Asia GIS) Call for Papers announced for GISCA'09 Conference Contact Submission of contributions: 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	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 Nottingham, UK have a pleasure in inviting you to participate to the 2nd GNSS Vulnerabilities and Solutions Conference to be held

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		on 2 - 5 September 2009 in Baška, Krk Island, Croatia.
7-11 September	Windhoek Namibia	<p>SADC Regional Conference on Sustainable Land Management Sustainable Land Management in the Dry lands of Southern Africa: the Practicalities The Sub-themes include: SUB-THEME 1: Innovation in ISLM SUB-THEME 2: Towards climate change adaptation in ISLM SUB-THEME 3: Governance for ISLM (Institutions) SUB-THEME 4: Knowledge and information management systems for ISLM SUB-THEME 5: Biofuels and Land degradation (theory and practice) SUB-THEME 6: Advances in communication awareness and information dissemination with respect to ISLM (poster materials) Contact: Ms. Birga Ndombo, and cc Ms Linda Fillemon, & Mr. Chris Tjitjapura.</p>
8 September	Jena, Germany	<p>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. Author notification – 20 July Camera ready manuscript – 3 August Workshop – 8 September</p>
8-10 September	Tsukuba, Japan	<p>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.</p>
9-12 September	Beijing, China	<p>6th International Symposium on Digital Earth E-mail Email for ISDE ISDE WEBSITE</p>
14-16 September	Beijing	<p>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.</p>
16-18 September	Johannesburg, South Africa	<p>Map Africa Email</p>
21-25 September	Venice, Italy	<p>OceanObs '09</p>
24-25 September	Addis Ababa, Ethiopia	<p>4th ESRI Eastern Africa User Conference The annual ESRI Eastern Africa User Conference brings together ESRI software users from across Ethiopia and Eastern Africa to share their experiences and learn more about ESRI's technology. The conference is co-organised by ESRI Eastern Africa, the GIS Society of Ethiopia and the Information, Sciences & Technology Division of the United Nations Economic Commission for Africa. Users of ESRI software are invited to present a paper which will showcase the use of ESRI software in their particular field of work and/or further the science of GIS. All papers presented at the conference are eligible for publication in the conference proceedings. Abstract submission deadline: 30 June 2009.</p>
October 2009		
4-8 October,	Cleveland, Ohio, USA	<p>NSGIC(National States Geographic Information Council) 2009 Annual Conference</p>

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	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 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	Taichung, Taiwan	2009 Urban Geographical Information System Forum Contact
19-22 October	Hanoi, Vietnam	7th FIG Regional Conference <i>awaiting Timeline for registration and submission of abstracts, papers, and presentations</i> Conference Website Electronic submission of papers closed 10 June 2009
20-23 October	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	Bangkok, Thailand	16th Meeting of ISCGM (International Steering Committee for Global Mapping)
26-30 October	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.

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		<p>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.</p> <p>Website: http://www.urisa.org/gis_transit</p>
15-22 November	Santiago, Chile	<p>XXIV International Cartographic Conference First call for papers Deadline for Abstracts: 16 January, 2009</p>
16 – 19 November	San Antonio, Texas, USA	<p>ASPRS / MAPPS 2009 Fall Conference</p>
17-20 November	Denver, USA	<p>7th William T. Pecora Memorial Remote Sensing Symposium E-mail</p>
30 November - 2 December	Sydney, Australia (Univ NSW)	<p>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</p>
December 2009		
1 – 4 December	Suva, Fiji	<p>Pacific GIS and RS User Conference University of the South Pacific, Suva, Fiji Website Since the first Pacific GIS & RS Conference in 1999, this annual event has attracted many participants, from near and far. Each year the range of GIS & RS technologies presented cover an array of applications including the management of resources of the small island Pacific nations. Shallow water bathymetry derived from satellite imagery, forest function maps to identify areas for to be protected, areas identified for developments in flood zones are some of the applications where the development of GIS & RS in the region have been applied in various sectors. As with previous conferences, there are no fees levied for those wishing to attend.</p>
1 – 3 December	Gold Coast, Australia	<p>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.</p> <p>IGNSS 2009</p>
1 – 3 December	Moscow, Russia	<p>Scanex 4th International Conference "Earth from Digital Space – the most effective solutions" Email</p>
February 2010		
2-4 February	Torino, Italy	<p>Gi4DM 2010 Call for Papers Organisers of the International Symposium on Geo-information for Disaster Management (Gi4DM 2010) have issued a call for papers related to the conference theme, 'Remote Sensing and Geo-Information for Environmental Emergencies'. Invitation is also open for contributions covering crisis management in any phase. The deadline for abstracts is 31 July 2009.</p>

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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: UPDATE: FIG 2010 Pre-Congress Program Online registration is now open for the FIG surveying congress to be held in Sydney, 11-16 April 2010. A local surveyor, John Brock, has arranged a history seminar on the two days leading up to the congress (9-10 April). Technical tours have also been organised, including a boat trip to historic Fort Denison.
Date to be announced	Taipei	ASIA GIS 2010 Conference further details to be announced
18 – 22 October	Singapore	GSDI 12 World Conference – Realising Spatially Enabled Societies In conjunction with the 16th PCGIAP Annual Meeting .

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