



# Spatial Data Infrastructure - Asia and the Pacific Newsletter

SDI-AP Newsletter

December 2004

Vol. 1, No. 14

Spatial Data Infrastructure – Asia and the Pacific (SDI-AP) is a free electronic newsletter for people interested in GIS, remote sensing, and data management issues in Asia and the Pacific. It aims to raise awareness and provide useful information to strengthen national SDI initiatives and support synchronization of regional efforts. The Permanent Committee on Geographic Information for Asia and the Pacific ([PCGIAP](#)) is a regional forum that is promoting SDI development. The newsletter is sponsored and prepared by the Global Spatial Data Infrastructure ([GSDI](#)) Secretariat with input from PCGIAP.

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Please mention SDI-AP as a source of information in correspondence you may have about items in this issue.

If you have news or information related to GIS, remote sensing, and spatial data infrastructure that you would like to highlight (e.g., workshop announcements, publications, reports, websites of interest, etc.), kindly send us the materials by the 25<sup>st</sup> of each month to: [sdj-ap@gsdi.org](mailto:sdj-ap@gsdi.org) so that we can include them in the newsletter.

We encourage you to forward this newsletter onto colleagues who may find the information useful, and ideally they will subscribe themselves.

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

Best regards, Oh Sung Kwon and Kate Lance

## Input to this Issue

Thank you to Marjam, ESRI (USA); Ahmed Abelrehim, Centre for Environment & Development for the Arab Region and Europe (CEDARE) (Egypt); Robert Zomer, International Water Management Institute (IMWI) (Sri Lanka); and Carmelle Cote, ESRI (USA) for their contributions to this issue of the newsletter.

## SDI News, Links, Papers, Presentations

[Thailand National Spatial Data Infrastructure Feasibility Study: Final Report](#) (zip file). Prepared for the [Geo-Informatics and Space Technology Development Agency](#); Prepared by ESRI, Inc., Geographic Planning Collaborative, Inc.; and ESRI (Thailand) Co. Ltd. ). The objective of the NSDI Feasibility Study project was to develop a high-level plan for NSDI implementation in Thailand. The NSDI will allow the government to build on existing GIS investments from the past ten years and move towards a cooperative environment that will support the knowledge-based society envisioned as part of the Government's 9th Economic and Social Development Plan. The Study builds on important foundation work carried out recently by Chulalongkorn University in the preparation of the "GIS Master Plan Study" for Thailand, the efforts of the National GIS Committee, and has included input from approximately 70 organizations that participated in the Study either as core stakeholders, stakeholders, or end users. The Study findings indicate that the national cost of data creation and data usage in the current, non-NSDI environment would amount to over \$980M (USD) over several years. This contrasts with a total cost of approximately \$250M (USD) if these same data sources are created and shared under the NSDI as described in this feasibility study. The cumulative "cash flow" (based primarily on cost savings) assuming a 5-year analysis period is \$480.0 million, which translates to an Internal Rate of Return (IRR) of 470 percent. The Net Present Value (NPV) of the investment (at a 1.7% discount rate) is \$452.3 million. With an 8-year planning period (alternative NSDI development scenario, the IRR is 111 percent and the NPV \$234.8 million. Thus from a national capital budgeting perspective the NSDI represents a logical and effective government investment for both NSDI development scenarios. The possible intangible benefits of better and more coordinated government decision making and operations have not been included in the financial calculations summarized above, and could far exceed these calculations in net societal impact.



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The Study was funded by the U.S. Trade and Development Agency (USTDA), a foreign assistance agency of the U.S. Government. USTDA funds various forms of technical assistance, feasibility studies, training, orientation visits and business workshops that support the development of a modern infrastructure and a fair and open trading environment.

### [Corporate Strategy of Spatial Data for Defense \(Thailand\)](#)

This corporate strategy based on situations and parameters in Thailand, emphasized mainly to Defense activities and development of the country. The objective is to propose a vision and corporate strategy with implementation plans for Ministry of Defense. Analysis of the data centered around the availability and coverage during 2003. The document provides study results concerning the availability and common perspective on spatial data for defence. [A research project submitted in partial fulfilment for the degree of Master of Business Administration in Aerospace Management at Toulouse Business School, Toulouse, France]

### **Community Mapping Network Organisation in Indonesia**

JKPP (Jaringan Kerja Pemetaan Partisipatif) is a Community Mapping Network Organisation in Indonesia (national Level). They have 68 members spread all over Indonesia. They do not yet have a website. For further information, send an email message to [jkpp@bogor.net](mailto:jkpp@bogor.net) or [itanatalia@bogor.net](mailto:itanatalia@bogor.net) [Source: PPGis.net]

### [PERSGA Integrated Information Management System \(IIMS\) – GIS Viewer](#)

[Regional Organization for the Conservation of the Environment of the Red Sea and Gulf of Aden](#), Contact: [persga@persga.org](mailto:persga@persga.org)

### [ISPRS International Workshop on “Service and Application of Spatial Data Infrastructure” \(1st announcement\)](#),

14-16 October 2005, Hangzhou, China. The workshop is a joint workshop of ISPRS working groups, i. e. WG IV/ 1 “Spatial Data Infrastructure”, WG IV/ 8 “Spatial Data Integration for Emergency Services” and Inter- Commission WG III/ IV “Dynamic and multi-dimensional Systems and Applications”, together with Permanent Committee on GIS Infrastructure (PCGIAP) WGs, The CEOS Working Group on Information Services and Systems (CEOS- WGISS), Global Spatial Data Infrastructure Association (GSDI) and ISO/ TC211 AG on Outreach. Deadline for abstract submission: 31 March 2005. Workshop Themes:

#### Advanced Technology of SDI

- Development, access and management of SDI in national, regional and global levels
- Data modelling methods and data model for multi-level SDI
- 3D and temporal spatial information in SDI
- Standards for content, access, interoperability, service, evolve and update of data framework
- Quality evaluation methods for data integration, interoperating and application in multi-level SDI
- SDI in urban areas and marine areas

#### Value-add Service and operational application of SDI

- Data harmonisation, integrating and synergy approaches of multi-scale vector data and imagery within multi-level SDI
- Integration of SDI with environmental and socio-economic data for various geo-information services
- Web-based geo-information systems based on SDI for the applications in e-government or public service
- Spatial Data Integration for Emergency Services

#### Regional development of SDI

- Regional geodetic infrastructure
- Regional Geo-framework dataset
- Regional Data Node network

**1st International Workshop on National Spatial Data Infrastructure of Mongolia**, 8-9 September, 2004, Ulaanbaatar, Mongolia. ([workshop executive summary](#)) ([program](#)) The main task of this Workshop was to assess the current situation of NSDI in Mongolia in relation to the GSDI activities and to make a work plan to achieve activities at the local level. Mongolia was one of the awardees of the GSDI Associations 2004 GSDI Small Grant Program. Organized by the Mongolian National Society for Photogrammetry and Remote Sensing in cooperation with the [Administration of Land Affairs, Geodesy and Cartography of Mongolia](#). Contact: Dr. M. Saandar, [msaandar@mongol.net](mailto:msaandar@mongol.net)



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## [New CGIAR-CSI Consortium for Spatial Information website](#)

The CGIAR-CSI Consortium for Spatial Information is pleased to announce the launching of its new website. It provides overview information and the latest updates on the CGIAR-CSI and its activities. It has a new look and substantially more information. Now included on the site:

- CGIAR GeoSpatial Tools online
- Links to GeoSpatial Activities at the various CGIAR Centers
- Description of GeoSpatial Activities for all CGIAR Centers
- Intellectual Property Rights Resource Center (for GeoSpatial Data)
- MetaData Resource Center
- Reports and results from recent workshops - GASSIA, PovertyMap, Global Spatial Data Users Workshop
- Vacancy and opportunity Listings...

In addition, CSI has launched the CGIAR-CSI 90m SRTM Digital Elevation Database, also available on this site (see details in 'Data Sources' section below). CSI is continuously updating the website with new information and more data available for download. They appreciate any feedback or comments: [csi@cgiar.org](mailto:csi@cgiar.org)

## [MultiTemp-2005: Preliminary announcement and call for papers](#)

The development of effective methodologies for the analysis of multi-temporal data is one of the most important and challenging issues that the remote sensing community faces. The importance and the timeliness of this issue are directly related to the ever increasing quantity of multi-temporal data provided by the numerous remote sensing satellites and the initiative for global Earth observations for societal benefits. The Third International Workshop on the Analysis of Multi-temporal Remote Sensing Images (MultiTemp-2005) will continue the objective of the previous workshops to assess the state-of-the-art of both theory and applications. The workshop will request contributions to focus on the use of multi-temporal remote sensing imagery for serving the nine societal benefit areas identified by the Global Earth Observation System of Systems (GEOSS). A two-page extended abstract must be received via e-mail at [multitemp05@gri.msstate.edu](mailto:multitemp05@gri.msstate.edu) before January 17, 2005.

## [Call for Papers - Twenty-Fifth Annual ESRI International User Conference](#)

Deadline for abstracts for user paper presentations for the 2005 ESRI International User Conference is December 3, 2004. Abstracts should be not more than 150 words. Users who present their papers at the conference can have them published on the Web and in the conference proceedings on CD-ROM.

'Early bird registration' for the 8<sup>th</sup> International Conference on Global Spatial Data Infrastructure ends 31 January 2005. Any questions can be directed to email: [fig@fig.net](mailto:fig@fig.net).

## GIS Tools, Software, Data

[The Oscars of Web Mapping - 2004!](#) - Results of Directions Magazine's online mapping contest.

## **Digital Elevation Data for the Entire Globe Now Available on the CGIAR-CSI GeoPortal**

The CGIAR-CSI is now able to provide "Hole-filled seamless SRTM 90m Digital Elevation Data" for almost the entire globe for download (Australia is not processed yet, but should be ready in the next couple of months). The SRTM DEM's have a resolution of 90m, and are provided in 5 deg x 5 deg tiles for easy download and use. These are available in both ArcInfo ASCII and GeoTiff format to facilitate ease of use. Data can be downloaded using a browser or directly from the ftp site. To go directly to the SRTM Database, click here: SRTM DEM Database (<http://srtm.csi.cgiar.org>) or visit the CGIAR-CSI Web Site: <http://csi.cgiar.org>

## [IWMI RS/GIS Data Storehouse Pathway \(DSP\) \(Gateway to over 1 terabyte of data on River Basins, Nations, Regions, and the World\)](#)

If you have not visited IWMIDSP, it is time to visit it (and register for it). From the last  $\beta$ -release to current release version 1.0 release, there have been significant advances that include addressing intellectual property rights, addition of numerous new datasets (e.g., multi-scale primary data used in Global mapping of irrigated areas, sub-continental MODIS time series), Global ground truth dynamic project data, participation of our regional offices (e.g., Uzbekistan Aral Sea Data, Ghana data), and addition of several new river basins, Nations, and regions.



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## [ArcWeb Singapore: Building A Knowledge Society Grant Program](#)

To help ArcWeb Singapore become a reality, ESRISA will donate the following to support the technical backbone of national spatial data infrastructures:

- One copy of ArcIMS (ArcIMS standard edition and one CPU)- for publishing geodata on the Internet
- Maintenance (technical support and upgrades) including the following:
  - The first year (12 months) of maintenance is provided at no cost.
  - E-mail, fax, and telephone technical support from ESRISA.
  - All software updates or patches on software donated during the first year.
  - After the first year, maintenance fees will be borne by the participating organizations
- Specially designed course on Building and Publishing a ArcWeb Singapore. An intensive three-week course designed to make the process of creating and publishing internet map easy to understand and easy to accomplish. Upon completing the program, students will be proficient in the application of the ArcGIS technology to the production of GIS data and map series to the OpenGIS Web Services specifications as well as the publication of the maps and data. Tuition is normally S\$1,320 per student. ESRISA will provide one free seat to each grantee.
- Grantees will agree to publish and make available on the Web their data using ArcIMS to provide an OpenGIS Web Map Server interface to participate both as a node of the ArcWeb Singapore. Publishing includes the preparation of basic data descriptions, called metadata, to facilitate search within ArcWeb Singapore. The publishing of other appropriate data sets is encouraged.
- ESRISA will temporarily host the ArcWeb Singapore data sets on their server without cost, where needed. This support will be determined on a case-by-case basis.

All organisations that are building spatial data in Singapore are eligible to apply for the ArcWeb Singapore Grant Program. Grants are made to institutions, not to individuals

## Geospatial Research, Applications, Reference Material

### [Proceedings online from 2004 ESRI User Conference](#)

<http://gis.esri.com/library/userconf/proc04/docs/pap1231.pdf>

### [Integration of Systems Network \(SysNet\) tools for regional land use scenario analysis in Asia](#)

This paper introduces the approach of the Systems research Network (SysNet) for land use planning in tropical Asia with a focus on its main scientific output: the development of the land use planning and analysis system (LUPAS) and its component models. These include crop simulation models, expert systems, GIS, and multiple goal linear programming (MGLP) models for land evaluation and optimization. LUPAS was designed as a decision support system (DSS) for strategic land use planning. Integration of LUPAS components in four case studies was performed in a network with national research teams and local stakeholders. This network allowed iterative evaluation and refinement of LUPAS for scenario analysis on technical and policy changes. Several interactive sessions with stakeholders led to more detail in scenarios (goals and constraints), model features and databases. To facilitate negotiation among stakeholders, the MGLP user interface (UI) was developed. In interactive sessions, goal restrictions are tightened to quantify trade-offs between conflicting goals. Choice and degree of tightening reflect the specific priorities for sustainable land use. The development of LUPAS is exemplified for one case study, Ilocos Norte, Philippines. Weak points of the system include inadequate spatial differentiation of socio-economic characteristics, scarce database for quantifying perennials and mixed cropping systems, and insufficient consideration of long-term effects of production technologies on resource quality. However, a promising perspective for effective policy support lies in the possible link of the regional LUPAS approach with farm household models.

### [Geographical information systems on the web for public participation in planning - Israel](#)

[from Proceedings of 12th Int. Conf. on Geoinformatics – Geospatial Information Research: Bridging the Pacific and Atlantic, University of Gävle, Sweden, 7-9 June 2004] Planning in Israel was often affected, in the recent years, by the public reactions. Traditionally Public Participation (PP) is very limited and can lead to conflicts between different interest groups. The main goal of this research is to examine the quantitative contribution and the added value of using PPGIS on the Web as compared to the use of traditional methods (meetings) in PP process. The PPGIS on the WEB system enable the public to participate actively in the process of planning a master plan for the "Shapira



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Neighborhood" in Tel-Aviv, Israel. The PPGIS on the WEB system is composed from a Regular HTML website and GIS website using ArcIMS server. The site enables the public to participate in the process, everywhere and anytime. It enables viewing extensive amount of GIS-based data from surveys, and statistical analysis on the internet. In addition, the public is able to response and comment to the planning team. This study is still in processing and the system supervise on the PP continuous.

[Land use change and dryland degradation studies with remote sensing and GIS: focus on the Caspian region and potential for global upscaling](#), 2nd International LUCC/LCLUC Colloquium and NATO Advanced Research Workshop, 6-10 May 2005 Baku/Zagulba, Absheron Peninsula, Caspian Sea, Azerbaijan. Participation is by invitation only and at the discretion of the ARW Co-Directors of the meeting; if interested, please address Dr. Helmut Geist, executive director of LUCC, at [geist@geog.ucl.ac.be](mailto:geist@geog.ucl.ac.be)

### **New Global Coral Reef Library Now Online - [Remote sensing of coral reefs](#)**

In a NASA-sponsored partnership between remote sensing scientists, international agencies and NGOs, new efforts are being made to (1) develop baseline global reef maps that can be a foundation for future more detailed investigations, (2) assemble the key baseline remote sensing data that is needed for researchers to study coral reef environments, and (3) partner with international organizations to use remote sensing data for applied science problems and improve the management of coral reefs. At present, two different online products allow access to the data: a) [Landsat Coral Reef Data Archive](#) displays data that is tiled, zoomable, and downloadable via FTP; b) an index with browse images of all the Landsat 7 data assembled by region. A total of 1490 Landsat 7 scenes were acquired with all but 55 available for public distribution. The archive is considered complete (with at least one good scene per target path-row).

### **Training Opportunities**

#### **[ESRI Live, free, training seminars](#)**

Live Training Seminars are the newest way to learn on Campus. An ESRI technical expert delivers a live presentation to your desktop. You can also access [free recordings of our live training seminars](#), viewable at your convenience.

### **Funding Opportunities, Awards, Support**

#### **[Ebbe Nielsen Prize for Innovation in Combining Biosystematics and Biodiversity Informatics Research](#)**

The prize honors the memory of Ebbe Nielsen and is awarded annually to a promising researcher who is combining biosystematics and biological diversity informatics research that supports the objectives of GBIF in an exciting and novel way. Nominating packages are due at the GBIF Secretariat no later than 15 December of any calendar year. The Prize consists of US\$35,000, and is intended to allow the recipient(s), who may reside in any country, to engage in biosystematics/biodiversity informatics research outside his/her/their country of residence for a period of 3-6 months. However, the use of the funds will be at the discretion of the recipient(s).

#### **[The BiD Challenge](#)**

The BiD Challenge is an international business plan competition, supporting innovative business ideas that combine profit with the improvement of living standards in developing countries. If you are a developing country or Dutch citizen and have an innovative business idea that reduces poverty, then join the BiD Challenge! A total of 10 prizes are to be won. The prize money is intended to assist the execution of the winning plans, and to make your great idea become reality. Participants are invited to submit short business ideas via the BID Challenge website. The deadline of this first round is January 31, 2005. [Source: Digital Dividend Digest vol. 55 November 22, 2004]

#### **COL - PROTEIN invites proposals for ICT & education initiatives that address rural poverty**

This is the third offering of the [COL-PROTEIN \(Poverty Reduction Outcomes Through Education Innovations and Networks\) Programme](#), where COL identifies and supports innovative uses of appropriate information and communication technologies (ICTs) and open, distance and technology-mediated learning methodologies to address challenges confronting the rural poor relating food security, environmental protection, rural development, nutritional education and micro-enterprise. COL invites proposals for initiatives that need expertise and limited financial support



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for their success in helping to alleviate rural poverty. For more information visit their website or email: [info@col.org](mailto:info@col.org). The deadline has been extended to 15 January 2005.

### [Scholarship available to participate in the Natural Areas Association's 8<sup>th</sup> International Workshop](#)

Scholarship available for a conservation professional from outside North America to participate in the Natural Areas Association's 8<sup>th</sup> International Workshop to the Western Cape Region of South Africa, March 5-16, 2005. The Natural Areas Association scholarship will cover land-based costs (including food, lodging, ground travel, guiding and park entrance fees, but excluding tips, alcoholic beverages and unanticipated fees). Scholarship candidates must work in the protection of natural areas (private or public parks and reserves, or other conservation areas) as managers, researchers, educators, administrators or students; speak and read English comfortably, and be able to finance their international airline ticket and obtain a visa or other necessary documents for travel to the South Africa. Deadline for applications: December 17, 2004.

### [UNESCO/Keizo Obuchi \(Japan\) Co-Sponsored Research Fellowships Programme](#) [Programme de bourses de Recherche UNESCO/Keizo Obuchi \(Japon\)](#) (français)

Young post-graduate researchers (with advanced degrees- M.A., M.Sc. or equivalent) working in the environmental sciences in developing countries can submit an application for a UNESCO/Keizo Obuchi Research Fellowship worth a maximum of US\$7,500. Applicants must be under 40 years of age. They should contact their country's National Commission for UNESCO to make known their interest in applying for one of the 20 fellowships on offer. Each country is entitled to propose two candidates for the fellowship programme, which is financed by Japan through funds-in-trust dedicated to the development of human resources. Deadline for applications: 14 January 2005. [Fellowship application form](#).

### [Commonwealth Academic Fellowships](#)

CSFP Commonwealth Fellowships are open to Commonwealth citizens, permanently resident in a Commonwealth country other than the UK, holding or returning to a teaching appointment in a university in the developing Commonwealth. Candidates should hold a doctorate (or other postgraduate qualifications accepted as sufficient for the career he/she is following). Candidates must have completed their doctorate no less than five years from the date of taking up the Fellowship. Candidates should have at least two years experience as a staff member of university or similar institution in their home country. Candidates must be aged 50 or under at time of taking up a Fellowship. [Download the full prospectus here](#). The Fellowship is tenable at approved institutions of higher learning for a 6 month period. Approximately 80 such awards are made per year. Nominations must be received in London by 31 December of the year preceding tenure. Nominations for Fellowships can only be accepted from universities/agencies which have been invited to make such nominations by the Commissioners. View the lists of those invited to nominate for [2005 entry](#). Please note that in no circumstances can applications be accepted directly from individuals.

### [APRU Fellows Collaborative Research Paper Award](#)

Every year, the APRU Fellows Program (AFP) brings together some of the best scholars from various disciplines in APRU (Association of Pacific Rim Universities) universities to exchange ideas and discussion on a thematic topic selected for the program. As a means of encouraging long term collaboration and scholarly reflection on the program, the 2004 AFP will launch an award for the best collaborative research paper produced based on the core theme of the program. For 2004, the program theme is "Globalization and Environmental Sustainability". Papers must be submitted by December 20, 2004. All submissions are to be sent to the APRU Secretariat at [apru@nus.edu.sg](mailto:apru@nus.edu.sg).

## Employment Opportunities

### [Request for Expressions of Interest - Technical Assistance to Draft Spatial Planning Legislation and to Amend the Development Control and Building Act of Timor-Leste](#)

The Democratic Republic of Timor-Leste (RDTL) is seeking the services of a qualified Consultant to draft the Spatial Planning Legislation and to amend the Development Control and Building Act, aligning it with the Draft Spatial Planning Legislation. As contemplated in the National Development Plan (NDP), Spatial Planning will provide a mechanism for the coordinated approach necessary for land use decision-making to achieve economic growth, regional and rural development, and cross-sectoral land use development needs at national, regional, city, and local area level. The Procurement Division of the Ministry of Planning and Finance invites eligible consultants to indicate



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their interest in the assignment. Interested consultants are required to provide information on their qualifications for to the assignment (curriculum vitae, description of similar assignments, experience under similar conditions, etc). The performance period for this assignment is estimated to be fifty-five (55) working days. Expressions of Interest shall be forwarded to the address below or sent via e-mail no later than 7 December 2004.

### [Economic Affairs Officer, Environment \(P-4\)](#), Beirut, Lebanon

The United Nations seeks an Economic Affairs Officer, Environment (P-4) for the Economic and Social Commission for Western Asia. Duties: participate in the programmatic or administrative tasks, including preparation of the work-programme, proposal of priorities, proposal of resources for completion of activities, report on budget and programme performance, in addition to preparations of input for results-based budgeting; contribute to monitoring developments in regional implementation of the outcomes of the World Summit on Sustainable Development; the Millennium Development Goals and the relevant initiative with other UN and Arab regional organizations, while identifying issues of concern to the organization; propose, design and carry out substantive research analyzing key trends and changes in environment and sustainable development policies and strategies, at national and regional levels; and liaise and partner with other departments or offices of the Secretariat and entities of the United Nations system. Requires: advanced university degree in one or more of the following disciplines: environment, natural resources economics, science, engineering, or any combination thereof in the sustainable development; five to seven years experience in the field of environment and sustainable development at large, at the national and regional levels; and fluency in oral and written English and Arabic. Closing date: December 13, 2004. Reference Vacancy Announcement No.: 04-ECO-ESCWA-402621-R-BEIRUT (G).

### [Intern, CGIAR-CSI Program Assistant/Research Fellow](#), Colombo, Sri Lanka

A one-year internship is available with the CGIAR Consortium for Spatial Information as a Program Assistant/Research Fellow. This position will support on-going activities of the CGIAR-CSI, including implementation of the ICT-KM Collaboration and Data Dissemination Project. See [CGIAR-CSI website](#) for more information about projects and activities. Applicant should have completed a M.Sc in a relevant field.; have a good familiarity with GIS and Remote Sensing software; knowledge of GeoSpatial Data Issues; excellent English language skills, highly computer literate, should be able to write well, communicate well, and be proactive and self-directed. Proficiency with mapserver applications, web-programming and web-site development would be a plus. The applicant will be based at IWMI Headquarters, in Colombo, Sri Lanka, and report directly to the CGIAR-CSI Global Coordinator. A stipend of USD \$850 per month, sufficient to cover living expenses in Sri Lanka, and airfare, will be provided. Intern will be responsible for obtaining health insurance. To apply, email cover letter, C.V., and names of three references to: Robert Zomer, Ph.D., Global Coordinator - CSI-CGIAR, International Water Management Institute (IWMI), P.O. Box 2075, Colombo, Sri Lanka, E-mail: [r.zomer@cgiar.org](mailto:r.zomer@cgiar.org). Deadline for applications: 15 December 2004.

### Other

[Google Scholar](#) enables one to search specifically for scholarly literature, including peer-reviewed papers, theses, books, preprints, abstracts and technical reports from all broad areas of research. Use Google Scholar to find articles from a wide variety of academic publishers, professional societies, preprint repositories and universities, as well as scholarly articles available across the web. Just as with Google Web Search, Google Scholar orders one's search results by how relevant they are to one's query, so the most useful references should appear at the top of the page. This relevance ranking takes into account the full text of each article as well as the article's author, the publication in which the article appeared and how often it has been cited in scholarly literature. Google Scholar also automatically analyzes and extracts citations and presents them as separate results, even if the documents they refer to are not online. This means your search results may include citations of older works and seminal articles that appear only in books or other offline publications. [Source: PPGis.net]

### [Standardized Monitoring and Assessment of Relief and Transition \(SMART\) program](#)

The [Standardized Monitoring and Assessment of Relief and Transition program](#) is an interagency initiative to improve monitoring and evaluation of humanitarian assistance interventions. Specifically, the program will pilot an approach to routinely collect, analyze and disseminate information on the nutrition and mortality experience of populations served by humanitarian interventions. The program will also provide implementing agencies and the broader humanitarian community with a wider range of tools to support humanitarian program assessment, monitoring and evaluation.



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## Conferences, Events

Items newly added to this listing of events since the last SDI-AP issue are marked \* **NEW** \*

Date	Location	Event
<b>December 2004</b>		
<b>2-3 December</b> * <b>NEW</b> *	Noida, U.P., India	<a href="#"><u>7<sup>th</sup> Annual ESRI India User Conference</u></a>
<b>4-6 December</b>	Jeddah, Saudi Arabia	<a href="#"><u>PERSGA Second Regional Forum 'Sea to Sea' Regional Organization for the Conservation of the Environment of the Red Sea and Gulf of Aden</u></a> , Contact: <a href="mailto:persga@persga.org">persga@persga.org</a>
<b>4-6 December</b>	Dubai, UAE	<a href="#"><u>Gulf 1st Annual Conference &amp; Exhibition on Geographic Information Systems</u></a> Contact: <a href="mailto:gis@sigmaprotraining.com">gis@sigmaprotraining.com</a>
<b>4-7 December</b>	Riyadh, Saudi Arabia	<a href="#"><u>1<sup>st</sup> International Conference on Advanced Remote Sensing for Earth Observation</u></a> Contact: <a href="mailto:info@remotesensingarabia.com">info@remotesensingarabia.com</a>
<b>6-8 December</b>	Sydney, Australia	<a href="#"><u>2004 International Symposium on GPS/GNSS</u></a> – hosted by the University of New South Wales, Sydney, Australia.
<b>6-9 December</b>	Cairo, Egypt	<a href="#"><u>Energy For Sustainable Development: Technology Advances &amp; Environmental Issues</u></a> Organised by: Arab Academy for Science & Technology and Maritime Transport and National Renewable Energy Laboratory
<b>7-9 December</b>	United Arab Emirates	<a href="#"><u>Seventh ESRI Middle East &amp; Africa User Conference</u></a>
<b>9-10 December</b>	Moscow, Russia	<b>4th International Conference and Exhibition "Laser scanning and digital aerial survey - today and tomorrow"</b> Contact: Inna Bartchan, <a href="mailto:inna_bartchan@geokosmos.ru">Geokosmos Company, inna_bartchan@geokosmos.ru</a>
<b>9-13 December</b>	Orissa, India	<a href="#"><u>International Conference on Conservation, Restoration and Management of Lakes and Coastal Wetlands</u></a> . Organized by : Berhampur University Karnataka, Environment Research Foundation, Centre for Ecological Sciences, IISc, Chilika Development Authority, Orissa Remote Sensing Application Centre Institute of Mathematics and Applications
<b>13-17 December</b>	Shanghai, China	<a href="#"><u>7th International Conference of Asian Digital Libraries (ICADL 2004)</u></a> The scope of ICADL covers a variety aspects of digital library research and practice: theory, technology and issues.
<b>January 2005</b>		
<b>6-8 January 2005</b>	Goa, India	<a href="#"><u>11th International Conference on Management of Data (COMAD 2005)</u></a> COMAD 2005 will focus on new developments in the principles and practices related to data management. The conference will bring together researchers, practitioners, developers and users to present and discuss emerging trends, concepts, techniques, technologies and experiences in data management.
<b>10-14 January 2005</b>	Port Louis, Mauritius	<a href="#"><u>International Meeting for the 10-year Review of the Barbados Programme of Action for the Sustainable Development of Small Island Developing States</u></a> (had been scheduled to take place from 30 August to 3 September 2004, but was postponed to these dates).



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18-21 January 2005 <b>* NEW *</b>	Brussels, Belgium	<a href="#">6th Meeting of the Group on Earth Observations</a> and the <a href="#">3rd Meeting of the Earth Observation Summit</a>
18-22 January 2005	Kobe-Hyogo, Japan	<a href="#">Second World Conference on Disaster Reduction</a> ISDR Secretariat, in collaboration with several partner organizations, is currently engaged in the ten-year review of disaster reduction activities since the first World Conference on Natural Disaster Reduction, which took place in Yokohama, Japan in 1994. The overall objective of the Second World Conference on Disaster Reduction is to increase the commitment for implementation of disaster risk reduction at all levels and in particular its integration into development planning processes. The review process will culminate in the Second World Conference on Disaster Reduction. Contact: Helena Molin Valdes, Senior Officer, International Strategy for Disaster Reduction, <a href="mailto:molinvaldes@un.org">molinvaldes@un.org</a>
24-28 January 2005	Bangkok, Thailand	<a href="#">High-level conference of Asia-Pacific statisticians (APEX 1)</a> (forum proposal)
30 January – 2 February	Abu Dhabi, UAE	<a href="#">Environment 2005</a>
<b>February 2005</b>		
5-7 February 2004	Kuwait	<a href="#">1st International Conference on Geographic Information Systems</a> Deadline for Abstracts: <a href="#">December 8, 2004</a> . Contact: <a href="mailto:dr@promedia-international.com">dr@promedia-international.com</a>
7-9 February 2005	New Delhi, India	<a href="#">Map India 2005</a> Contact: <a href="mailto:info@mapindia.org">info@mapindia.org</a>
26 February – 1 March <b>* NEW *</b>	Cairo, Egypt	<a href="#">1st International Conference Exhibition on Geo-Resources in the Middle East and North Africa</a> The three main themes being considered are Oil and Gas Resources, Water Resources, and Mineral Resources
28 February – 5 March 2005	Sri Lanka	<a href="#">Commonwealth Forestry Conference</a> <a href="#">Financial support to developing country participants</a> Limited funds are being made available by UK DFID and The Commonwealth Foundation to support attendance at the Commonwealth Forestry Conference for participants from developing countries.
<b>March 2005</b>		
1-2 March 2005 <b>* NEW *</b>	Gaza, Palestine	<a href="#">First International Conference of Science and Development (ICSD-I)</a> Contact: <a href="mailto:scienceconf@mail.iugaza.edu">scienceconf@mail.iugaza.edu</a>
2-4 March 2005 <b>* NEW *</b>	Bali, Indonesia	<a href="#">12<sup>th</sup> ESRI South Asia User Conference</a>
6-9 March 2005	Denver, CO, USA	<a href="#">Geospatial Information &amp; Technology Association (GITA)'s 2005 Annual Conference and Exhibition</a> . This prestigious event will present an exciting technical program, including one-and-a-half days of in-depth seminars followed by two-and-a-half days of educational sessions. This year's conference theme, Crossing Boundaries, is designed to address the boundless opportunities that geospatial information technology presents to organizations.
14-16 March 2005	Phoenix, Arizona, USA	<a href="#">Joint Conferences on Urban Remote Sensing – 3<sup>rd</sup> International Symposium on Remote Sensing and Data Fusion over Urban Areas</a>



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<b>* NEW *</b>		<a href="#"><u>(URBAN 2005) and 5<sup>th</sup> International Symposium on Remote Sensing of Urban Areas (URS 2005)</u></a>
<b>21-23 March 2005</b>	Delft, the Netherlands	<a href="#"><u>First Symposium on Geo-Information for Disaster Management</u></a>
<b>28-30 March 2005</b>	University of Aizu, Japan	<a href="#"><u>Workshop on Databases in Networked Information Systems (DNIS)</u></a> In conjunction with the 4th International Workshop on Databases in Networked Information Systems (DNIS 2005) - Access and Visualization of Dynamic Content. The workshop will focus on data semantics and infrastructure for information management and interchange. It is being co-sponsored by University of Aizu, Department of Computer Software. Database Systems play a central role in the evolving information systems.
<b>28-31 March 2005</b>	Tokyo, Japan	<a href="#"><u>4<sup>th</sup> International Symposium on Digital Earth</u></a>
<b>29 March – 1 April 2005</b>	Shanghai, China	<a href="#"><u>The Seventh Asia Pacific Web Conference</u></a> APWeb'05 is the seventh in a series of international conferences on WWW Technologies. APWeb'05 aims at bringing together researchers and practitioners from both academic and industry to exchange knowledge on WWW-related technologies and new advanced applications.
<b>April 2005</b>		
<b>3 - 4 April 2005</b>	Tokyo, Japan	<a href="#"><u>15th International Workshop on Research Issues on Data Engineering</u></a>
<b>5 - 8 April 2005</b>	Tokyo, Japan	<a href="#"><u>The 21st International Conference on Data Engineering (ICDE 2005)</u></a>
<b>8-9 April 2005</b>	Tokyo, Japan	<a href="#"><u>International Workshop on Privacy Data Management</u></a> In conjunction with <a href="#"><u>21st International Conference on Data Engineering (ICDE 2005)</u></a>
<b>16-21 April 2005</b>	Cairo, Egypt	<a href="#"><u>FIG Working Week &amp; 8<sup>th</sup> International Conference on Global Spatial Data Infrastructure</u></a>
<b>17 &amp; 21 April 2005</b>	Cairo, Egypt	<a href="#"><u>12<sup>th</sup> International Steering Committee for Global Mapping Meeting</u></a>
<b>18-20 April 2005</b>	Beijing, China	<a href="#"><u>10th International Conference on Database Systems for Advanced Applications (DASFAA 2005)</u></a> An annual international forum for academic exchanges and technical discussions among researchers, developers and users of databases from academia, business and industry. The conference will promote research and development activities in database field among participants and their institutions from Pacific Asia and the world as well.
<b>18-20 May 2005</b>	Hanoi, Vietnam	<a href="#"><u>9th Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD-05)</u></a> will provide an international forum for researchers and industry practitioners to share their new ideas, original research results and practical development experiences from all KDD related areas including data mining, data warehousing, machine learning, databases, statistics, knowledge acquisition and automatic scientific discovery, data visualization, causal induction and knowledge-based systems. Proceedings will be published by Springer Verlag as a volume of LNAI series. The deadline of papers submission is <u>22 December 2004</u> .
<b>24-27 May 2005</b>	Seoul, Korea	<a href="#"><u>Sixth Global Forum on Reinventing Government- Toward Participatory</u></a>



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		<a href="#">and Transparent Governance</a>
<b>May 2005</b>		
<b>16-18 May 2005</b>	Los Angeles, CA, USA	<a href="#">GeoSpatial World 2005</a>
<b>24-27 May 2005</b>	Sesimbra, Portugal	<a href="#">ISESS 2005 (International Symposium on Environmental Software Systems)</a> ISESS 2005 is the latest in a series of conferences and workshops that, since 1995, have provided a forum for presenting and discussing effective information processing techniques for environmental prediction and monitoring. Deadline for abstracts: <a href="#">November 5, 2004</a> .
<b>25-27 May 2005</b>	Hong Kong	<b>The First International Symposium on Cloud-Prone and Raining Areas Remote Sensing (CARRS 2004)</b> will be held at the Chinese University of Hong Kong, Organized by the Joint Laboratory for GeoInformation Science of Chinese Academy of Sciences and the Chinese University of Hong Kong.
<b>30 May – 2 June 2005</b> <b>* NEW *</b>	Estoril, Portugal	<a href="#">GIS Planet 2005</a> Contact: <a href="mailto:planet@gisplanet.org">planet@gisplanet.org</a> Deadline for 1 <sup>st</sup> round of submissions has been extended until <a href="#">December 9, 2004</a> .
<b>June 2005</b>		
<b>June (TBD) 2005</b>	Seoul Korea	<b>IEEE/IGARSS 2005</b> The Geoscience and Remote Sensing Society annually sponsors the International Geoscience and Remote Sensing Symposium (IGARSS)
<b>20-24 June 2005</b>	St. Petersburg, Russia	<a href="#">31st International Symposium on Remote Sensing of Environment "Global Monitoring for Sustainability and Security"</a> <a href="#">Call for papers</a> Deadline for submission of abstracts: <a href="#">November 1, 2004</a> .
<b>27-29 June 2005</b>	Honolulu, Hawaii, USA	<a href="#">2005 AWRA Summer Specialty Conference - Institutions for Sustainable Watershed Management: Reconciling Physical and Management Ecology in the Asia-Pacific</a>
<b>July 2005</b>		
<b>3-6 July 2005</b>	Southampton, UK	<a href="#">Cambridge Conference: The Exchange</a> – to be held at Ordnance Survey's head office in Southampton, UK. With a greater emphasis on networking and round-table discussions, CC:The Exchange is designed to strengthen relationships between national mapping organization senior representatives and to complement the 2007 Cambridge Conference. Contact: <a href="mailto:nmonetwork@ordnancesurvey.co.uk">nmonetwork@ordnancesurvey.co.uk</a>
<b>4-7 July 2005</b> <b>* NEW *</b>	Darwin, NT, Australia	<a href="#">The North Australian Remote Sensing and GIS - NARGIS 2005 – Applications in Tropical Spatial Science</a> Contact: <a href="mailto:gmesser@norgate.com.au">gmesser@norgate.com.au</a>
<b>9-16 July 2005</b>	La Coruña, España	<a href="#">XXII ICA International Cartographic Conference</a> .
<b>24-29 July 2005</b>	San Diego, CA, USA	<a href="#">ESRI International User Conference</a>
<b>August 2005</b>		
<b>22-26 August 2005</b> <b>* NEW *</b>	Cairns, Australia	<a href="#">Dynamic Planet 2005: "Monitoring and Understanding a Dynamic Planet with Geodetic and Oceanographic Tools"</a> A Joint Assembly of the IAG, IAPSO and IABO. Deadline for submission of abstracts: <a href="#">23 April 2005</a> .



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September 2005		
6-8 September 2005	Bologna, Italy	<a href="#">River Basin Management 2005</a> River Basin Management 2005 is the third conference in the series which marks the growing international interest in the planning, design and management of river basin systems -- including all aspects of hydrology, ecology, environmental management, flood plains and wetlands.
7-9 September 2005 * NEW *	Brno, Czech Republic	<a href="#">EnviroInfo 2005 - Informatics for Environmental Protection - Networking Environmental Information</a> Deadline for abstracts: February 1, 2005.
25-26 September 2005	Kathmandu, Nepal	<a href="#">International Symposium on Landslide Hazard in Orogenic Zone, Himalaya to Island Arc in Asia</a>
25-27 September 2005	Magdeburg, Germany	<a href="#">Second International ICSC Symposium on Information Technologies in Environmental Engineering (ITEE'2005)</a> The deadline for submission of papers is: February 28, 2005.
October 2005		
9-13 October 2005	Bonn, Germany	<a href="#">6th Open Meeting of the Human Dimensions of Global Environmental Change Research Community</a>
14-16 October 2005 * NEW *	Hangzhou, China	<a href="#">ISPRS International Workshop on "Service and Application of Spatial Data Infrastructure"</a> The workshop is a joint workshop of ISPRS working groups, i. e. WG IV/ 1 "Spatial Data Infrastructure", WG IV/ 8 "Spatial Data Integration for Emergency Services" and Inter- Commission WG II/ IV "Dynamic and multi-dimensional Systems and Applications", together with Permanent Committee on GIS Infrastructure (PCGIAP) WGs, The CEOS Working Group on Information Services and Systems (CEOS- WGISS), Global Spatial Data Infrastructure Association (GSDI) and ISO/ TC211 AG on Outreach.
17-21 October 2005	China, P. R.	<a href="#">27th ICSU Assembly</a> . Organised by the International Council for Science (ICSU).
November 2005		
21-25 November 2005	Bandar Seri Begawan, Brunei Darussalam	<b>8th South East Asian Surveyors Conference (SEASC)</b> . Contact: <a href="mailto:survey@brunet.bn">survey@brunet.bn</a>
28 November – 2 December 2005	Khon Kaen, Thailand	<a href="#">First international symposium on the Management of Tropical Sandy Soils for Sustainable Agriculture - a holistic approach for sustainable development of problem soils in the tropics</a> Submissions of abstracts due by 28 January 2005.
30 November – 2 December 2005 * NEW *	Moscow, Russian Federation	<a href="#">2<sup>nd</sup> International Conference Earth from Space – the most effective solutions</a> Abstract deadline: August 1, 2005.
December 2005		
2006		
16-22 March	Mexico	<a href="#">4th World Water Forum</a> The main theme of the Forum will be "Local



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2006		actions for a global challenge". A series of regional meetings will be held throughout the preparatory phase in order to identify good practices and learn lessons from shared experiences, as well as to support and encourage local commitments. Guiding principles, main objectives, framework themes and topic sessions available for comments in the <a href="#">concept paper</a> .
13-17 July 2006	Wollongong and Sydney, Australia	<a href="#">COAST - GIS 06 - 7th International Symposium on GIS and Computer Cartography for Coastal Zone Management</a> . GIS for the coastal zone: Spatial Data, Modelling and Management; Extending the Spatial Data Infrastructure. Collaboration between the International Cartographic Association's Commission on Marine Cartography and the International Geographical Union's Commission on Coastal Systems
9-13 October 2006 * NEW *	Santiago, Chile	<b>9<sup>th</sup> International Conference on Global Spatial Data Infrastructure</b> organized by <a href="#">GSDI Association</a> & <a href="#">Instituto Geográfico Militar</a> Contact: <a href="mailto:gsdi9@igm.cl">gsdi9@igm.cl</a>

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