

*pgis - psp - ik - (cb)nrm*

**Applying Participatory-GIS and Participatory Mapping to  
Participatory Spatial Planning and to  
Local-level Land & Land Resources Management  
utilising Indigenous & Local Spatial Knowledge**

**A Bibliography**

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for regular updates, see:

[http://ppgis.iapad.org/pdf/pgis\\_psp\\_itk\\_cbnrm\\_biblio\\_mccall.pdf](http://ppgis.iapad.org/pdf/pgis_psp_itk_cbnrm_biblio_mccall.pdf)

**'pgis, psp, ik and (cb)nrm'**  
**Application of P-GIS and P-Mapping to**  
**Participatory Spatial Planning, and to**  
**(Community-based) Natural Resource**  
**Management Utilising Indigenous & Local**  
**Spatial Knowledge**

**M.K. McCall**  
**13 March 2006**

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Boundaries of Home: Mapping for Local  
Empowerment.

Gabriola Island, BC: New Society/New Catalyst.  
 (138p.)

Summary: Mapping the experience place; New  
 terrain: current mapping thought; How to map  
 your bioregion: a primer for community activists;  
 Evolving maps, evolving selves: access to further  
 resources. Using overlays, tapestries and stories,  
 communities are mapping what's crucial to them:  
 water and air flow, community patterns,  
 distribution of species, local history. The book  
 also provides a step-by-step description of how to  
 use accessible sources.

Chap. 5 "How to Map your Bioregion."

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 mapping, P-GIS methods, procedures, law, land  
 title, history, culture, ITK, Bioregional mapping

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 sensitive areas, guide for a Bioregional Map  
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Keywords: CPR, local NRM, participation, (maps), (GIS), policy

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Keywords: Australia, Aboriginals, land titling, tenure, GIS (ITK)

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[http://pubs.wri.org/pubs\\_pdf.cfm?PubID=3900](http://pubs.wri.org/pubs_pdf.cfm?PubID=3900)

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Keywords: Costa Rica – Neguev, ITK, maps, participatory, soil, agriculture, planning

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Keywords: N. Thailand, participation, mountain agriculture, NRM, local NRM, 3-D models

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Cali: CIAT(?) (10p.)

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Keywords: Malawi, forestry, community customary land rights

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Keywords: Philippines, coastal, marine, fisheries, ITK, GIS

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Keywords: Philippines- 6 pilots; coastal, marine, fisheries, reefs, mangroves, seagrass, resource degrade, overfishing, ITK, 1:10,000 & 20,000 community maps, GIS, training

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Keywords: spatial cognition, landscape; "Places emerge as sites of the hybrid articulation of representations, practices, & things, as spatialized imaginaries"; Thule Inuit people, Greenland, Arctic

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Keywords: Indonesia- E. Kalimantan, community forestry, rights, boundaries, participatory mapping

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Keywords: Indonesia, Kalimantan, PRA, maps, CB-NRM, social, forestry, training

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Keywords: maps, visualisation, political, social, propaganda, ethics, semiotics; animal mental maps; maps of non-rational, mystical objects

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Keywords: PRA, participation, methods, (gender)

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Yayasan Tanah Merdeka, Jl. Tanjung Manimbaya IIIB, Palu-Sulawesi Tengah

email: [ytm@ytm.or.id](mailto:ytm@ytm.or.id)

<http://www.ytm.or.id/eng/parmap.html>

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Keywords: Philippines, Palawan, customary land claims, entitlements, water resource claims

Zurayk, Rami (2003)

Participatory GIS-based natural resource management: Experiences from a country of the South.

Arid Lands Newsletter 53, (May/June)

Keywords: Lebanon, eliciting farmers' ITK into GIS for LUP in drylands, P-mapping

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Using indigenous knowledge in land use investigations: a participatory study in a semi-arid mountainous region of Lebanon.

Agriculture, Ecosystems & Environment 86 (3) 247-262.

Keywords: Lebanon, eliciting farmers' ITK into GIS for LUP in drylands, P-mapping, (not P-GIS).

## P-GIS and P-Mapping Web Sites

### **Public Participation GIS (PPGIS) WebRing**

Ring of Webs sharing common interests in community mapping and collaborative spatial information management practices aimed at integrated conservation and development, sustainable natural resource management, customary property rights and peer-to-peer communication. Community of practice around the concept of Public Participation GIS (PPGIS), this WebRing aims at stimulating exchange of information on progress made in visualizing community-based knowledge and perceptions to provide stakeholders and less-favoured community members added stake in designing and owning development and natural resource management initiatives.

<http://t.webring.com/hub?ring=ppgis>

### Indigenous Peoples ...

Website of the “**Aboriginal Mapping Network**”, a community of participatory mappers and P-GIS’ers among First Nations groups in Canada and the USA. Downloadable case studies, guides, and other documents and news items on practices & policy.

[www.nativemaps.org](http://www.nativemaps.org)

Many examples of, and linkages to, First Nations maps, Canada, USA.

[http://www.nativemaps.org/map\\_gallery.html](http://www.nativemaps.org/map_gallery.html)

### **Conservation GIS - ESRI**

Website of ESRI (cf. ArcView) with many documents & links to applications of P-GIS for indigenous people’s land rights & entitlements, indigenous environmental and NRM, etc.

<http://www.conservationgis.org/links/native.html>

### **Maps: GIS Windows on Native Lands, Current Places, and History.**

<http://www.kstrom.net/isk/maps/mapmenu.html>

North America, Canada, USA, maps & GIS dealing with Native American spaces, locations, resources, communities. Eg. Wisconsin, Minnesota, BC First Nations.

### **Website of GIS ’91 Natural Resources**

**Symposium**, Vancouver, Feb. 1991 and the papers given there, with many relevant papers on P-GIS, PPGIS.

[http://www.innovativegis.com/papers/abstracts/min\\_gis\\_91.html](http://www.innovativegis.com/papers/abstracts/min_gis_91.html)

### **International Forum on Indigenous Mapping:**

### **Mapping for Indigenous Advocacy and Empowerment** Conference: Vancouver, BC, April 2004

Contact: Alvin Warren, ICMI, Santa Clara Pueblo, New Mexico

*“Maps are inseparable from the political and cultural contexts in which they are used.”*

<http://www.signup4.com/incoming/Draftagenda.pdf>

### **“Six Nations Geo Systems “**

<http://www.sngeo.com/contact.html>

Six Nations of the Grand River, Ontario, Canada; Commercial GIS software for research into land rights, entitlements (*letters patent*), ownership, electoral boundaries, infrastructure, housing, forestry, services, etc.

<http://www.cmapgallery.org/resources/>

### **Cherokee Nation**

GIS Indigenous Mapping Conference, Tulsa, OK., March 2005

The Cherokee Nation, Tahlequah, OK

<http://www.cherokee.org/extras/events/gis/default.aspx?page=home>

### **The Center for Native Lands**

1616 P. Street NW Suite 200, Washington DC 20036, USA

The Center for Native Lands has been at work for over 15 years to protect biological and cultural diversity in Latin America and elsewhere. A key part of its work involves mapping of traditional indigenous territories, at small and large scales, using participatory approaches.

<http://www.nativelands.org/bin/view.pl/36024.html>

### **Center for the Support of Native Lands**

support for community-based mapping projects in Honduras, Panama, Nicaragua and Belize.

3240 Wilson Boulevard, Suite 220, Arlington, VA 22201, USA.

TEL: 703-841-9771 FAX: 703-841-9774.

## International

### **PPgis.net**

#### **Open Forum on Participatory Geographic Information Systems and Technologies.**

This forum serves as global avenue for discussing issues, share experiences and good practices related to community mapping, participatory mapping, counter mapping, Public Participation GIS (PPGIS), Participatory GIS (PGIS or P-GIS), Community Integrated (CiGIS), Mobile Interactive (MiGIS) and other geo-spatial information technologies and system used in participatory settings to support integrated conservation and development, sustainable natural resource

management and customary property rights in developing countries and First Nations.

<http://ppgis.iapad.org/>

“Mapping for Change”

International Conference on Participatory Spatial Information Management and Communication. (PGIS 2005), Nairobi, Kenya, 7-10 Sept 2005

<http://ppgis2005.cta.int/>

### CSDMS

Centre for Science, Development and Media Studies, New Delhi

3 print journals, also on the web:

[GIS@ Development](#)

[i4D](#)

[eGov](#)

*Mapping the Neighbourhood* – project under NRDMS (Natural Resource Data Management Section) of Dept of Science and Technology, India, takes mapping science to community through participation of school children. in 20 schools in Almora & Nainital districts, Uttaranchal. 500+ students & 50 teachers participating since Oct 2003. Maps prepared using GPS with PDA. *GramChitra* - open source GIS “for the masses” developed by Media Lab Asia (MIT research initiative in India) collect geographic information, spatial & non-spatial using GPS and PDA.

<http://www.csdms.in/>

### CyberTracker

CyberTracker software creates data entry templates, or a screen sequence, to use on Windows Mobile PocketPC or PalmOS handheld computer to gather and map locally-generated, indigenous spatial knowledge. Connected to a GPS, CyberTracker instantly geo-references data. “CyberTracker’s unique design allows users to display icons, text or both, which makes data collection faster. It also allows field data collection by non-literate users and school children.”

CyberTracker, PO Box 1211, Noordhoek, Cape Town, 7985, South Africa

[info@cybertracker.co.za](mailto:info@cybertracker.co.za)

<http://www.cybertracker.org/index.html>

<http://www.cybertracker.co.za/tracking.htm>

### IAPAD

Website based in Philippines (managed by G. Rambaldi) with many documents and links to participatory spatial planning, P-GIS, and especially to P3-DM = “Participatory 3-Dimensional Mapping” = 3-D modelling.

<http://www.iapad.org/>

[http://www.iapad.org/participatory\\_p3dm.htm](http://www.iapad.org/participatory_p3dm.htm)

**Online PPGIS Bibliography, IAPAD website** links to downloadable .pdf versions of papers

<http://www.iapad.org/bibliography.htm>

### GISDECO - GIS for Developing Countries

network, currently hosted by ITC.

Previous conference of GISDECO held at ITC, Enschede, Netherlands, May 2002.

Latest is May 2004 at Universiti Teknologi Malaysia, Skudai, Johor.

<http://www.geog.uu.nl/gisdeco/gisdeco.html>

**GEO4NGO** website - exchange platform related to use of geographical information by humanitarian organisations, especially NGOs. No sign of any P-GIS applications.

<http://www.geo4ngo.org/geoneeds01.html>

### Innovative Resources Management (IRM)

(Michael Brown, Pres.)

2421 Pennsylvania Ave., NW

Washington, D.C. 20037

phone: 202-293-8384, fax: 202-293-8386

[info@irmgt.com](mailto:info@irmgt.com)

IRM is a non-profit NGO working with local communities in developing countries to strengthen local institutions that promote sustainable natural resources management. Currently focusing on COAIT (Community Options Analysis and Investment Tool ) which involves ‘landscape-level’ participatory mapping, participatory resource inventory, participatory cost benefit & risk analysis, and identifying natural product development opportunities for local communities to identify equitable development options linking to for-profit, private-sector investors.

### MapAction

Lime Farm Cottage, Little Missenden, Buckinghamshire, HP7 ORQ, UK.

<http://www.mapaction.org/>

<http://www.mapaction.org/index.html>

“Supporting humanitarian operations with real time mapping”. Pilot eg. of GPS + PDA (PGIS) for water & sanitation issues in Delhi.

<http://www.mapaction.org/news.html>

### Green Map System

Green Map System (GMS) is locally adaptable, framework for environmental mapmaking, utilizing GMS’s shared visual language – set of icons representing different kinds of green sites and cultural resources. 20-30 countries, (270+ examples Feb 2005) not many in South countries – a few examples from; Uganda, South Africa, Argentina, Brasil, Costa Rica, Jamaica, Chile, Malaysia, India, Cuba,

[www.greenmap.org](http://www.greenmap.org)

<http://www.greenmap.com/home/home.html>

**Earth Island Institute** (Borneo Project)

Community based mapping of traditional village land, Sarawak rainforests, Malaysia.  
[www.communitymap.org](http://www.communitymap.org)

Biodiversity Support Program  
 support to local mapping projects in Indonesia, Namibia, Panama, the Philippines and Thailand.  
 c/o World Wildlife Fund, 1250 24th Street, NW, Washington, DC 20037, USA.  
 TEL: 202-861-8313/ 8347 FAX: 202-861-8324.

**CRMP – Coastal Resource Management Project, Philippines.**

Training tools, - sketch mapping, drawing over base map. Philippines  
[http://www.oneocean.org/pcra/mapping\\_menu.html](http://www.oneocean.org/pcra/mapping_menu.html)

**USA and Canada (see also: Indigenous peoples)**

**URISA – Urban & Regional Information Systems Association**, Park Ridge IL., USA  
<http://www.urisa.org/>

<http://www.urisa.org/ppgis.htm>  
<http://www.esri.com/library/userconf/.htm>  
<http://www.urisa.org/publicat.htm>

Websites of ESRI's annual User Conferences and the papers given there, with many relevant papers on P-GIS, PPGIS. Publications available from URISA.

Electronic on-line **URISA Journal** from the Urban and Regional Information Systems Association.  
<http://www.urisa.org/Journal/onlinejournal.htm>

**NCGIA Varenius** meeting on "Empowerment, Marginalization and Public Participation GIS" 1998.

Specialist meeting on a range of topics in intersection of community interests and GIS technology. Site includes links to research papers;  
<http://www.ncgia.ucsb.edu/varenius/ppgis/papers/index.html>  
<http://www.ncgia.ucsb.edu/varenius/ppgis/ncgia.html>  
<http://www.ncgia.ucsb.edu/varenius/ppgis/>

1996 NCGIA workshop on PPGIS  
<http://www.ncgia.maine.edu/ppgis/ppgishom.html>

**Initiative 19: GIS and Society**

<http://www.geo.wvu.edu/i19/>  
 From West Virginia University, this site provides background information on, and reports and publications resulting from, the NCGIA's "GIS and Society" initiative.

**RGIS - National Consortium for Rural Geospatial Innovations in America**

Contact: Steve Ventura, [sventura@wisc.edu](mailto:sventura@wisc.edu)  
 Land Information and Computer Graphics Facility, University of Wisconsin-Madison, 550 Babcock Drive, Madison, WI, USA

RGIS assists state, tribal, regional and local governments, and non- & for-profit organizations in implementing advanced geospatial information technologies. To improve quality of life, environmental health, & economic competitiveness of rural communities.  
<http://www.ruralgis.org/>

**Shaping Dane Project Website**

Goal of 'Shaping Dane' is provide local communities with opportunity to participate in community-based, technology-linked land use decision-making.

Contact: Stephen J. Ventura, University of Wisconsin-Madison, WI, USA.  
[www.lic.wisc.edu/shapingdane](http://www.lic.wisc.edu/shapingdane)

**Island Institute.**

Sustaining the islands and communities of the Gulf of Maine.

Community-Integrated approach to GIS involves building local capacity using existing community resources. The Island Institute supports a community-integrated GIS approach in 3 Maine island communities: Vinalhaven, Islesboro, & Peaks. The goal is to increase local information management capacity and make quality information accessible to the entire community, to support planning, conservation, education, & governance. Examples: watershed assessment, trails mapping, fire pond locations.

<http://www.islandinstitute.org/communitygis/>

**Public Participation GIS**

Watching and exploring as PPGIS emerges as a practice and a science

Contact: Tulloch, David L.; Center for Remote Sensing & Spatial Analysis, Rutgers University, New Brunswick, NJ:

<http://www.crssa.rutgers.edu/ppgis/>

**Website & paper by Krygier dealing with PP Visualization.**

[http://www.owu.edu/~jbkrygie/krygier\\_html/lws/ppviz.html](http://www.owu.edu/~jbkrygie/krygier_html/lws/ppviz.html)

**Mike Shiffer - participation in planning.**

<http://yerkes.mit.edu/ncpc96/home.html>

**MapCruzin - Clary-Meuzer Research Network**

Excellent site with resources, access to free data, software etc.

<http://www.mapcruzin.com/>

**Orton Family Foundation**

Community Mapping Program. 'This Land: Mapping Our Communities'..  
USA, e.g. Vermont, Colorado, New Hampshire: educational & social.  
The Orton Family Foundation  
128 Merchants Row, 2nd Floor  
Rutland, Vermont 05701, USA  
<http://www.orton.org/projects/community/Mapping.asp>

### **Common Ground Community Mapping Project.**

Victoria BC.  
Coordinator: Maeve Lydon (Lydon 2000)  
Community mapping provides inclusive & graphic framework for people to affirm and pool their experiences and knowledge about their home place. Community mapping is as much about process as it is about 'getting the map done.'  
Common Ground provides training, & exchange of experiences. Including **Green Maps**.  
<http://www3.telus.net/cground/mapping>

### **Getty Research Institute**

Mapping Local Knowledge.  
USA, Los Angeles, educational & social

**Ecotrust Canada** – Information Services and Planning Program.

<http://www.ecotrustcan.org>

### **Community Mapping Network**

<http://shim.bc.ca/>

## **Australia**

### **Nature Conservation Council of NSW**

Community Mapping for NSW:  
"Community mapping is about empowering the community to: Collect community & environmental information; Organise information; View as interactive map, shared with other communities & government; interpretive framework; document and support community decision making" Internet mapping; maps on paper or earth, 3-D models.  
<http://www.nccnsw.org.au/mapping/index.html>

## **UK**

### **University of Leeds**

University of Leeds, School of Geography, England. A lot of innovative work on participatory, on-line, interactive GIS using the web.  
On-line Digital Democracy Group, Centre for Computational Geography  
School of Geography, University of Leeds  
Steve Carver, Andrew Evans, (Richard Kingston)

5 years developing web-based Geographical Information Systems for Public Participation in environmental decision making.

<http://www.ccg.leeds.ac.uk/democracy/>  
(lastest update: 26 June 2003)

Interactive web exercise: Exploring environmental decision making using Internet GIS. Public participation in locating a nuclear waste disposal site.

<http://www.ccg.leeds.ac.uk/teaching/nuclearwaste/>

Woodland Online Decision System (WOODS) - Interactive web exercise: Using internet GIS decision-making for new woods planted in the Yorkshire Dales.

<http://www.ccg.leeds.ac.uk/projects/dales/>

### **University of Manchester Web-based Public Participation Geographical Information Systems Research**

Contact: Richard Kingston, Planning and Landscape, School of Environment & Development, University of Manchester Manchester, UK.

[richard.p.kingston@manchester.ac.uk](mailto:richard.p.kingston@manchester.ac.uk)

The main aim of the site is to develop and test web-based Geographical Information Systems (GIS) to enhance public involvement and participation in environmental planning and decision making processes

<http://www.ppgis.man.ac.uk/>

(latest update 2 Dec. 2005)

Click on the links to **Slaithwaite** which is the local village where the methods are being developed.

<http://www.ccg.leeds.ac.uk/slaithwaite/> (former)

<http://www.ppgis.man.ac.uk/projects/slaithwaite/>

(latest update 10 May 2004)

Virtual Slaithwaite P4R-NIF refers to the 'Planning for Real' @ Web-based Public Participation exercise by Neighbourhood Initiatives Foundation using a 1:1000 3-D scale model of Slaithwaite village, in West Yorkshire, UK.

### **Maps and Stats**

Bradford, Yorks.: Bradford Council in partnership with Bradford Resource Centre (BRC).

<http://www.mapsandstats.com/>

**Online Planning** research into utilising internet based virtual reality within planning system.  
Centre for Advanced Spatial Analysis (CASA)  
University College London.

Contact: Andrew Hudson-Smith

[Asmith@geog.ucl.ac.uk](mailto:Asmith@geog.ucl.ac.uk)

<http://www.casa.ucl.ac.uk/research/onlineplanning.htm>

<http://www.onlineplanning.org.uk/>

### **Online Planning Journal**

<http://www.casa.ucl.ac.uk/planning/olp.htm>

**CASA** – Centre for Advanced Spatial Analysis, University College, London  
1999, CASA researchers disseminated work on multimedia, GIS, & virtual reality in urban design to local communities. **Hackney Building Exploratory Interactive** was first application & led to current project in **Woodberry Down** where CASA is building a multimedia resource for public participation. Woodberry Down is one of the most deprived public housing estates in the UK and participation is central to the process of community regeneration, An Example of how digital technologies can enable a disenfranchised community to realise its own future

**Woodbury Down Regeneration**, Hackney, London  
[www.casa.ucl.ac.uk/woodberry/](http://www.casa.ucl.ac.uk/woodberry/)  
<http://156.61.16.5/woodberry/>  
<http://www.casa.ucl.ac.uk/research/woodberrydown.htm>

#### **CASA**

See also: Muki Haklay: GIS, Dept of Geomatic Engineering, University College, London (London)  
<http://www.casa.ucl.ac.uk/muki/>

## **EUROPE**

*CHECK* Switzerland p-gis

**Bürgerbeteiligung Online** – landscape plan, Königslutter  
<http://thuja.land.uni-hannover.de/entera/mapserv.phtml>  
Source: ref. in Steinmann et al. (2004)

**Vernetzter Bebauungsplan – Landkreis Freising**  
<http://fs.mapsailor.de/fs-start.htm>  
Source: ref. in Steinmann et al. (2004)

## **Spatial Decision Support, ...**

**MAPTALK™** geographic conference software for interactive spatial planning - W!SL & Center of Geo Information, Alterra, Wageningen.  
“MAPTALK™ offers mutual GIS making efficient use of geographic information in spatial decision making processes with stakeholders. Stakeholder participation & group decision-making uses digital support of spatial brainstorm, discussions & (geographic) information sharing.”  
<http://www.maptalk.com/> <http://www.maptalk.nl/>

**Project DeltaM** - Experimental Web Site on PP in Planning. Delft University, Jordi Camprubí i Mateo, IET-Institut d'Estudis Territorials, Delft.  
[www.bk.tudelft.nl/ai/deltametropool/DeltaM.htm](http://www.bk.tudelft.nl/ai/deltametropool/DeltaM.htm)

**GIS for Group decision making**  
Nyerges and JanKowski website  
<http://www.geochoice.com/>

**Environmental Simulation Center** includes CommunityViz DSS for Community Planning.  
Contact: M. Kwartler  
<http://www.simcenter.org/>

Website to accompany R. Laurini's "**Information Systems for Urban Planning**". NOTE: ArguMap  
<http://lisi.insa-lyon.fr/~laurini/isup/chap6.htm>  
<http://lisi.insa-lyon.fr/~laurini/isup/>  
<http://groups.yahoo.com/group/argumap/>

**ArguMAP** mailing list dealing with Claus Rinner's Argumentation Mapping system.  
<http://www.austhink.org/argumentmapping/index.htm>

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