

Workshop

Participants

Scale Effects in Decision Making for Ecoregional Development. San Jose, Costa Rica - July 4-6, 2000

Bruno Barbier CIAT, Honduras b.barbier@cgiar.org

Bruno BARBIER obtained his Ph.D. from the University of Montpellier in 1994. He then worked 4 years at the International Food Policy Research Institute where he developed bioeconomic models at the watershed and community level. He joined CIAT in July 1998 where he is developing decision support tools at different scales from the farm to the national level. He is also analyzing national level database.

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Charles Hall State U. of NY, USA chall@esf.edu

Charles Hall was born near Boston in 1943. He received training in Biology from Colgate University and from Penn State University followed by a Ph.D. from the Univ. North Carolina at Chapel Hill, where he was trained as a Systems Ecologist under H. T. Odum. He has held positions at Brookhaven National Lab., Cornell University, University of Montana and SUNY ESF. Dr. Hall's interests have ranged from aquatic to tropical land use to assessing national economies, always with a systems and energy perspective. He has authored or coauthored 5 books and 150 papers on these subjects, always with a systems perspective. Currently his interests are focused on generating a biophysical basis for economic analysis.

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Myrna Hall State U. of NY, USA mhhall@esf.edu

Myrna Hall was born in Yakima, Washington in 1945 on an apple farm. Though a secondary school language teacher (trained at the University of Washington) for 7 years, her real interests lie in digging in the dirt. Hence she returned to school to earn a Masters of Science Degree in Natural Resources Management at SUNY's College of Environmental Science and Forestry, completing in 1994 a dynamic simulation of spatially distributed glacier and vegetation response to changing climate in Glacier National Park, Montana, USA. Since entering the environmental arena her modeling work has spanned a broad range of disciplines, of ecosystems, and continents. Most recently she is involved with Dr. Sandra Brown (Winrock Intl.), the Nature Conservancy's Climate Change Program and Sociedade de Pesquisa em Vida Selvagem e Educação Ambiental (SPVS) in the Southern Paraná region of Brazil developing a GIS based model for carbon sequestration baseline scenario calculations as required by the Kyoto Protocols' proposed Clean Development Mechanisms. Professional Interests: Her professional interests include integrating modeling and GIS for studying the interaction of humans and their environment, natural resources

management, and issues of sustainable development, graphic information visualization, and foreign language communication.

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Rob Rhoades U. Georgia, USA rrhoades@arche.uga.edu

Robert E. Rhoades, Professor of Anthropology, received his B.S. in animal science, M.A. in sociology, and Ph.D. in anthropology. His research and development work focuses on the human dimensions of agriculture and natural resource management. He has extensive anthropological field experience in the Himalaya, Andes, Europe, and North America. He spent 12 years with the International Potato Center where he worked on post-harvest issues and established UPWARD (User's Perspective in Agriculture Research and Development), a pan-Asian research network. In 1991, he was recruited by the University of Georgia to build a new department in Ecological and Environmental Anthropology. He has written several popular articles for National Geographic Magazine for which he won the National Science Writer's Award in 1991. In his spare time, he is restoring a worn out cotton farm in the piedmont of Georgia and reconstructing historic pioneer log cabins.

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Thomas Veldkamp Wageningen Ag. U., Holland tom.veldkamp@geomn.beng.wau.nl

Tom Veldkamp, born in the Netherlands 1963, was trained as a tropical soil scientist at Wageningen University. He graduated in 1988 M.Sc. with honours in Soil Science, Geology and Computer science. His first employment was a Ph.D. research position, which was completed with the defense of his thesis in 1991. In 1992 he worked for the military defense ministry. In 1993 he obtained a position as a mathematical geologist at the State Geological Survey, where he modeled the environmental effects of nuclear waste deposits. In 1994 he switched to the department of Agronomy (Wageningen University) where he worked on spatial explicit modeling of land use changes. In 1995 he was offered a position as lecturer at the Laboratory of Soil Science and Geology. He is now a senior staff member involved in the description and modeling of landscape and land use systems. His main professional experiences are in geology, soil science, agronomy and complex system modeling in general. He mostly worked on subjects in developing countries in Latin America, SE Asia and East Africa.

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Glenn Hyman CIAT, Colombia g.hyman@cgiar.org

Glenn Hyman is a Geographer specializing in physical geography, geographic information systems (GIS) and Latin America. He holds a Masters Degree in Geography from Appalachian State University where he focused on watershed dynamics and was the director of the university map repository. He combined GIS and remote sensing techniques to analyze soil erosion processes in the New River watershed in North Carolina. Glenn was awarded a doctorate in Geography from the University of Tennessee, where he studied geomorphology and geographic information systems, with a regional focus on Latin America. As a Fulbright scholar in Costa Rica, his Ph.D. thesis focused on sediment movement and land surface processes in the 652 km² Rio Pacuare watershed. His work also involved the development and use of national level

databases of Costa Rica related to environment and agriculture. Glenn developed continental GIS databases of crops and population as a postdoctoral fellow at the International Center for Tropical Agriculture (CIAT). Glenn is currently the director of a World Bank funded project to promote the development of GIS-based information products in the 6 Spanish-speaking Central American countries. He is an active member of the Association of American Geographers (AAG) the American Society for Photogrammetry and Remote Sensing (ASPRS), the Conference of Latin American Geographers (CLAG) and the Society of Latin American Remote Sensing Specialists (SELPER).

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Nathalie Beaulieu CIAT, Colombia n.beaulieu@cgiar.org

Nathalie Beaulieu was born in Montreal, Canada, in 1965. She studied Civil Engineering at the Université de Sherbrooke with a concentration in environmental engineering, and in 1990 she completed a masters in soil mechanics and hydraulics applied to soil erosion. In 1998, she completed a Ph.D. in remote sensing, analyzing the utility of airborne radar images to identify growth stages in sugar cane and root crops. Between 1992 and 1996 she was at CATIE, Costa Rica, first as an interchange student and then as a consultant in the GIS laboratory. At the end of 1996, she joined CIAT's Land management group. Since January 1999, she coordinates a small project at CATIE entitled "Exploration of opportunities for land use and rural development in the Colombian Orinoco region", which is funded by the Colombian Ministry of Agriculture. This project aims at developing approaches and methods to help decision-makers at different scales in the planning of land use and agricultural activities. These methods are developed by a multi-disciplinary team through case studies in nested test sites from the community to the national level, in partnership with the decision-makers themselves. They include participatory planning methods, the use of low cost GIS in rural planning and the use of soil studies and geomorphologic units for the mapping of soil restrictions. From now and in the next years, her work will focus on methods to allow decision-makers to more easily use Remote Sensing images for diagnosis and monitoring of land use, including mapping of degraded areas, forest cover and geomorphologic landscape units.

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Gaston Grenier CIDA, Honduras sostenib@david.intertel.hn

Gaston Grenier, born in Canada in 1943, was trained in agricultural engineering and in business administration in Quebec. After ten years as consultant in engineering and business administration, he spent the following ten years with the Canadian International Development Agency (CIDA) as an agriculture specialist and later as director of agriculture. From 1991 to 1994, he managed the Institut International de Recherche Scientifique pour le Développement en Afrique, a research facility based in Ivory Coast, dedicated to biotechnology for medical and agricultural priorities. Since 1994, he has been leading rural development activities funded by CIDA in Honduras. His main professional experiences are resource planning, small-scale irrigation, farm building environment and ODA program and project management.

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Julio Berdegué RIMISP, Chile jberdegue@rimisp.cl

Julio A. Berdegué was born in 1957 in Mexico, and has been a resident of Chile since 1984. An agronomist by training, he has studied in the former National School of Agriculture in Mexico; the University of Arizona at Tucson, the University of California at Davis, both in the USA; and the Wageningen Agricultural University in the Netherlands. For over a decade he has been the Coordinator and, later, Chairman of the Board, of RIMISP (International Farming Systems Research Methodology Network), a region-wide network of 33 governmental and non-governmental institutions, dedicated to the innovation of methods in agricultural research, rural development and natural resource management. In the private sector, Mr. Berdegué is the owner and manager of a medium size firm in Chile dedicated to producing and marketing seeds and vegetables for the fresh market and the agro industrial sectors. In the public sector Mr. Berdegué has been employed by Chile's Agricultural Development Institute, with direct responsibility at the national level for its programs of extension, credit, small scale irrigation and small scale agribusinesses.

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Doug Horton ISNAR, Holland d.horton@cgiar.org

Douglas Horton is employed by the International Service for National Agricultural Research (ISNAR) in The Netherlands. Since joining ISNAR in 1990, he has engaged in research, training and advisory work on research management, with an emphasis on evaluation. Previously, for 15 years Horton was head of the social science department of the International Potato Center in Peru. Horton received B. S. and M. S. degrees in agricultural economics from the University of Illinois and a Ph. D. in economics from Cornell University. His current interests include action research and learning, evaluation of capacity development programs and institutionalization of planning, monitoring and evaluation systems.

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Joep Luijten U. Florida/CIAT, USA JoepLuijten@yahoo.com

Joep Luijten was born on August 14, 1969 in the Netherlands. His main professional experiences are in geographic information systems (GIS), modeling, watershed hydrology, and computer simulation. In June 1994 he received a M.Sc. degree in agricultural systems science at the Wageningen Agricultural University in Wageningen, the Netherlands. During his studies he spent four months at the Institute of Biosystems Engineering, Federal Agricultural Research Center, Braunschweig, Germany (January-May 1993), as well as five months at the Crop Systems Modeling Laboratory of the University of Florida, Gainesville, Florida (September 1993-February 1994). After graduation he worked for one year as a research associate at the DLO-Research Institute for Agrobiological and Soil Fertility (AB- DLO) in Wageningen, where he conducted a study on the future world food production and consumption. He returned to the University of Florida in July 1995 to pursue a Ph.D. degree in Agricultural and Biological Engineering, which he received in December 1999. He conducted his dissertation research in cooperation with the International Center for Tropical Agriculture (CIAT), Cali, Colombia, focusing on hydrological simulation and water security issues in

hillside watersheds in Latin America. He continued to work with CIAT through May 2000. Joep now works as a GIS Specialist with the Natural Resources Defense Council in Washington, DC.

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Hugh Eva Joint Research Center, Italy hugh.eva@jrc.it

Hugh Eva is a research officer at the European Commission's Joint Research Centre, Ispra. He is currently the Latin America co-ordinator of the TREES (the TRopical Ecosystem Environment observation by Satellite) project, which has been set up to monitor and measure changes in the tropical forest belt, using remote sensing techniques. His main areas of research involve developing techniques to use remotely sensed parameters to highlighting areas of forest change in the tropics.

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Carlos León Pérez PAEZ Project, El Salvador cleonp@ejje.com [\[Top\]](#)

Carlos Hernández EARTH, Costa Rica chernandez@ns.earth.ac.cr [\[Top\]](#)

Mark Mulligan Kings College, UK mark.mulligan@kcl.ac.uk

Mark Mulligan, born in England in 1970, received his degree in physical geography from the University of Bristol in 1991. He completed a Ph.D. on modelling the impact of climate change on Mediterranean hydrology and vegetation at King's College London in 1996. In 1994 Mark was appointed lecturer at King's College London and, since then, has taught courses in hydrology, climatology, global environmental change and computer modelling of environmental systems at undergraduate and masters level. Since 1994 his research interests have consolidated around analysis of the impacts of climate and land use change in the European Mediterranean and in tropical-montane hillsides and forest ecosystems. Mark has worked intensively in Colombia since 1995 and in Ecuador more recently although related work takes place in the Philippines and many of the southern European countries. He currently supervises 10 Ph.D. students in fields from hydrology to biodiversity and manages research projects funded by the CEC, Royal Society, UK NERC and UK DfID.

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Thomas R. Leinbach U. Kentucky, USA leinbach@pop.uky.edu

Tom Leinbach has degrees in economics and geography from the Pennsylvania State University and has taught at the U of Vermont, U of Washington and served as Visiting Professor at Universiti Sains Malaysia, National University of Singapore, and the University of Canterbury, Christchurch. His research, over three decades, focuses upon development issues using Southeast Asia, but especially Indonesia as a regional laboratory. Continuing interests in transport delivery and the impacts of accessibility have been extended to include the role of liberalization in the economies of ASEAN. Along with industrial policies, trade regimes and foreign investment behavior in the increasingly deregulated economy, is the matter of technology and policies directed to its enhancement in the Indonesian post-crisis development pattern. Recent NSF sponsored research has explored the problems of and impacts associated with the

resettlement process in Indonesia. The main focus has been employment behavior and the nature of socio-economic differentiation among settlers in the transmigration program. This research has stimulated an interest in peasant household survival strategies and family coping mechanisms. Emphases include family and life cycle influences coupled with accessibility, human and economic capital, as well as, the notion of fungibility. Continuing research on this topic will explore accumulation behavior with respect to land, capital and petty enterprise development and the critical importance of the rural non-farm economy (RNFE). Tom served as Director of the Geography and Regional Science Program in the Division of Social, Behavioral and Economic Research at the National Science Foundation from 1995 to 1998. He is editor of *Growth and Change: A Journal of Urban and Regional Policy*, a member of the National Academy of Sciences, Transport Research Board's Committee on the Social and Economic Impacts of Transport, and an occasional consultant to the ILO, USAID, and the World Bank. An ongoing effort involves the encouragement of cooperative and collaborative research on the theme of social change and sustainable transport (SCAST), a joint program between the National Science Foundation and the European Science Foundation.

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John R. Thomlinson Institute for Tropical Ecosystems Studies, Puerto Rico
thomlins@sunceer.upr.clu.edu [\[Top\]](#)

Matilde Somarriba Chang U. Nacional Agraria, Nicaragua farena@sdnnc.org.ni

Matilde Somarriba-Chang, born in Nicaragua in 1961, got her B.Sc. in Agronomy at the National Agrarian University in Managua, Nicaragua. After she worked at the Program of Soil and Water Conservation in the Soil Erosion Control Project from the Ministry of Environment and Natural Resources in 1986, she went back to the University to work as Assistant Professor on Soil and Water Conservation. In 1992 she was elected Dean of the College of Natural Resources and Environment ending her period in June of 1994. From August 1995 to December 1997 she completed her Master studies at Texas A&M University. Currently is the Dean of the College of Natural Resources and Environment (FARENA), National Agrarian University in Nicaragua elected from 1998 to 2002. Her main professional experiences are in soil and water conservation adoption issues and watershed planning and management both associated with a participatory approach.

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Ron Knapp CIAT, Colombia rknapp@bendcable.com

Ron (E. Bronson) Knapp, a US national, was granted a B.A. degree in economics from Dartmouth College and M.Sc. and Ph.D. degrees in Soil Science from Washington State University. He joined CIMMYT in 1980 as the wheat production training officer. Six years later he transferred to the CIMMYT maize program's regional office for South America located at CIAT, Cali Colombia where he served as the regional agronomist. In 1992 he joined CIAT to help develop the new Hillside ecoregional program where he served as program leader from 1995-1998. Ron retired from the CG this year. Over the past few years his research interests have focused on scenario analysis and the use of

computer-based decision support applications to address longterm, multiple-use, multiple-stakeholder resource management issues.

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Gregoire Leclerc CIAT, Colombia g.leclerc@cgiar.org

Grégoire Leclerc received his Ph.D. in Applied Physics from Sherbrooke University, Canada in 1991. He later specialized in Remote Sensing and GIS, through a Post-Doc in Remote Sensing with CARTEL, Canada, as well as many consulting and teaching contracts with CATIE, in Costa Rica. He joined CIAT in 1996, and is now Senior Scientist with the Land Use Dynamics and Spatial Analysis program, which is part of CIAT Natural Resources Management division. He contributed to improvement in the organization and technical capacity of the CIAT GIS lab, which is considered to be one of the best in Latin America. His main interests are in the development of novel methodologies and tools to support a wide range of applications, from digital image processing to decision support systems. He is now focusing on finding ways to bridge the social and biophysical sciences, through action research on knowledge discovery. He is 40 years old, has lived 9 years in Africa and 9 years in Latin America, is married to a civil engineer with a Ph.D. in remote sensing, and has a 13 year old boy and a 10 year old girl.

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Andrew Nelson CIAT, Colombia a.nelson@cgiar.org

Andy Nelson is a Spatial Analyst at CIAT with degrees in Civil Engineering and GIS. During the last 4 years, his research has covered accessibility modelling, cross-scale spatial analysis, data exploration and the application of artificial intelligence approaches to spatial problems. He is also a part time Ph.D. student, at the University of Leeds (UK), investigating methodologies for integrating data across geographic scales. Other research interests include Open GIS, fuzzy logic, novel GIS applications for natural resource management, and boring colleagues to tears with monologues on the absolutely vital importance of scale issues, data quality and accessibility planning. When not at work, he can usually be found playing funk-bass at an annoyingly loud volume somewhere in Cali.

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Julian Swindell Royal Ag. College, UK julian.swindell@royagcol.ac.uk

Julian Swindell, born in Scotland in 1951, trained as an architect in Manchester and gained his first work experience with a Palestinian engineering company in Jordan and Abu Dhabi. After returning to England he worked in private architectural practice for several years, first as an employee and then as a principal, before joining the Royal Agricultural College in Cirencester as a lecturer in building and land surveying in the School of Rural Economy and Land Management. His interests in rural surveying and computer aided drawing led him to take a Masters degree in GIS, which is now his prime field of interest. He is currently a principal lecturer in rural information systems and the College's computer manager. His research and consultancy interests include precision agriculture, rural land information systems, computer aided learning and

distance education. He is a member of the Royal Institute of British Architects and a Fellow of the Royal Geographical Society.

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Guillermo Suazo IHCAFE, Honduras ihcafe.divagri@hondudata.com [\[Top\]](#)

Ian Turton Leeds U., UK i.turton@geog.leeds.ac.uk

Ian Turton studied geophysics at the Universities of Newcastle and Edinburgh before moving to Leeds to join Professor Stan Openshaw to work in the emerging field of computational geography. In 1994 the Centre for Computational Geography (CCG) was formed at Leeds. During his time as a researcher in the group he has worked on a variety of problems including the application of high performance computers to geography, the smart analysis of spatial data, desertification issues in the Mediterranean basin and the flexible output of census microdata. Since 1999 Ian has been director of the CCG which now employs 11 research staff full time.

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Alden Rivera Montes SERNA, Honduras alden@itsnetworks.net [\[Top\]](#)

Juan Lucas Restrepo Ibiza DNP, Colombia jrestrepo@dnpc.gov.co [\[Top\]](#)

Juan Vargas U. Costa Rica, Costa Rica jrvargas@cariari.ucr.ac.cr [\[Top\]](#)

Roberto Azofeifa MAG, Costa Rica razof@mag.go.cr

Roberto Azofeifa, born in San José Costa Rica in 1958. He lives with his three daughters and his wife. One of his daughter is saxophone player in the Infantile Synphonic Orchestra of Costa Rica. He was trained in Animal Production and Agricultural Economy in University of Costa Rica. He worked in vegetable production in his own bussiness during 10 years. In 1987 he began to work in the Extension Service of the Ministry of Agriculture and Livestock. He has been working in a soil and water conservation project since 1993. His main professional experiences are in participatory development technology and socioeconomy studies.

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Manuel Paulet IICA, Costa Rica mpaulet@iica.ac.cr [\[Top\]](#)

Sergio Sepúlveda IICA, Costa Rica ssepulve@iica.ac.cr [\[Top\]](#)

Hans Jansen Wageningen A. U., Holland h.g.p.jansen@lei.dlo.nl

Hans G.P. Jansen, born in The Netherlands in 1958, received his B.Sc in Macroeconomics and his M.Sc in Economics and Development Planning from Erasmus University in resp. 1980 and 1983. In 1987, he received his Ph.D in Agricultural Economics from Cornell University. As a student he has worked for the Pakistan Institute of Development Economics (PIDE) in Islamabad, Pakistan; for the World Bank in Washington, D.C.; and for the International Crops Research Institute (ICRISAT) in India. After obtaining his Ph.D he has worked for FAO in Rome, for ILCA (International

Livestock Centre for Africa, now called ILRI) in Nigeria, for AVRDC (Asian Vegetable Research and Development Centre) in Taiwan, and for Wageningen University and CATIE in Costa Rica. Currently he is employed as a Senior Agricultural Development Economist at the Dutch Agricultural Economics Research Institute (LEI-Wageningen UR) in The Hague, The Netherlands. His main interests are land use analysis and policy research related to food and the environment.

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Fernando Saenz U. Nacional, Costa Rica fsaenz@una.ac.cr

Fernando Saenz-Segura, born in Costa Rica in 1966, was trained in Agricultural Economics in the Universidad de Costa Rica from 1984 to 1990. After his first employment as private consultant for the public and the private sector, he joined the Postgraduate Program of the Tropical Agricultural Research and Higher Education Center (CATIE), where he takes the degree of M.Sc. in Natural Resources Management in 1995. From 1996 to 1998 he works for the project Agrarian Policies for Sustainable Land Use and Food Security, a joint research effort between CINPE-UNA and Wageningen University. In 1998 he also worked for the REPOSA Program as part of training cooperation between REPOSA and the Ministry of Agriculture and Livestock of Costa Rica (MAG). Since 1999, he is following a PH.D. Program in Wageningen University, The Netherlands. The title of his research project is: Contract Farming, Farm Household Decisions, and Sustainable Land Use. His main professional experiences are in Agricultural Economics, Agrarian Policies, and Farm Household Modeling.

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Jose Ignacio Sanz CIAT, Colombia j.sanz@cgiar.org [\[Top\]](#)

Alexander Hernandez COHDEFOR, Honduras [\[Top\]](#)

Sergio Velasquez CATIE, Costa Rica svelasqu@catie.ac.cr