



GECHS

GLOBAL ENVIRONMENTAL CHANGE
AND HUMAN SECURITY

ANNUAL REPORT 2002

TABLE OF CONTENTS

Introduction	3
Research Program	3
Conferences, Workshops, Meetings	4
Links to Other Projects	5
Publications	6
Programme Offices	7
Financial Report	8
IPO Relocation and Stabilization	8
GECHS SSC Members	8
Appendix A: Publications, Presentations & New Research	8

GLOBAL ENVIRONMENTAL CHANGE & HUMAN SECURITY PROJECT ANNUAL REPORT FOR 2002

INTRODUCTION

This annual report provides information about the activities of the GECHS project and the individual contributions of the Scientific Steering Committee. During the past year GECHS has made significant progress in several key areas including:

- Successful procurement of new funding for GEC and conflict studies and for vulnerability to GEC,
- Development of a new partnership with Procter & Gamble (Canada) which has permitted stabilization and relocation of the IPO to Carleton University, Ottawa, Canada through to mid-2004,
- Hiring of Dr. Maureen Woodrow as the GECHS Executive Officer,
- Maintenance and development of new links with other core and joint projects,
- Adoption of an endorsement policy and the establishment of an endorsement committee,
- Substantial contributions to IHDP-led activities within the WSSD, ICSU, ISSC, IHDP Young Scientists and Urbanization Initiative

Research Program

Signature Projects

Southern Africa Vulnerability Initiative (SAVI)

At the 2001 SSC meeting it was agreed that GECHS should develop a signature project focusing on vulnerability within the context of southern Africa. A project proposal was developed by Mike Brklacich and Karen O'Brien and submitted to ICSU in February 2002. The project was approved and has received funding for one year. The main objectives of SAVI are to:

- Consolidate different facets of vulnerability research and develop an integrated framework for understanding vulnerability within the context of southern Africa
- Develop a proposal for a self-sustaining, longer-term project which integrates vulnerability research with policy formulation
- Build a coalition among ICSU and other scientists in the region to implement a vulnerability research program

The researchers will link with a related SCOPE project which has also been funded by ICSU.

Environment & Security in Russia

During the year Elena Nikitina has continued to develop a project proposal. In November 2002 meetings were held with a CIDA representative in Moscow to discuss funding possibilities for collaborative efforts between scientists and policy partners in Russia and Canada. Based on the discussions at this meeting, the CIDA representative

suggested that GECHS prepare concept papers outlining areas we would like to pursue clarifying in a concise and precise manner the objectives, the partners and the policy networks involved. Two areas of potential interest might be:

- Natural Hazards in Russia: Bolstering Social Vulnerability and Mitigating Impacts
- Climate and Energy Security Assessment.

Environment & Cooperation

PRIO has been funded by the Research Council of Norway for a Centre for Study of Civil War. The Centre will receive 1.3 million US/year over the next 10 years for a variety of activities, some of which have been identified as projects to be carried out under the auspices of the GECHS Programme Office directed by Nils Petter Gleditsch.

Endorsed Projects

With the appointment of the Endorsement Committee, GECHS has received several applications for project endorsement. The first endorsed project is under the auspices of Woodrow Wilson Center, the Environment, Development & Sustainable Peace Initiative, which will work with an international core group from both the Northern and Southern hemispheres to hold a constructive dialogue on the mitigation of environmental contributions to conflict and to develop a constructive agenda on environment, development and sustainable peace. Several other applications have been received and will be reviewed in 2003. The Endorsement committee has been working to clarify their mandate and guidelines.

Conferences, Workshops, Meetings

SSC members have represented GECHS and presented papers at a number of conferences and workshops, such as the World Summit on Sustainable Development in Johannesburg in August 2002, the ICSU General Assembly in Rio de Janeiro in September 2002 and ISSC Conference in Vienna in December 2002. For a complete list of papers presented during 2002 by SSC members see Appendix A

GECHS Workshop - Rethinking Global Environmental Change & Human Security

Planning for a workshop has begun. The discussions focused on either an open meeting or an intensive workshop, and it was agreed to move forward with the idea of an intensive workshop which would provide the opportunity to present research generated by the GECHS Science Plan and to discuss future priorities. Funding sources are being explored and the possibility of a special journal issue resulting from the workshop is being considered. As well, it is planned to launch an edited GECHS volume in conjunction with this workshop (see Publications for further information). The workshop will be held in June or July 2004, most likely in Norway. Nils Petter Gleditsch and Karen O'Brien have agreed to lead the process. Richard Matthew has agreed to shepherd the development of an edited volume on GECHS signature book Global Environmental Change And Human Security that is to be released at the meeting.

SSC Meeting

The annual meeting of the Scientific Steering Committee (SSC) was held in Moscow in November. At this year's meeting the SSC had the opportunity to meet with colleagues and

discuss possible collaborations. Nina Poussenkova, Senior Researcher, Institute of World Economy and International Relations, presented a paper on “Carbon Flows Between Eastern and Western Europe” in which she outlined the issues faced in Russia of declining production and shortage of gas. Eugene Krassinets, from the Institute of Social and Economic Problems of Population, presented a paper on “Illegal Migration and Employment in a Transition Economy: The Case of Russia” in which he discussed the scope of the growing problem, the different categories of and characteristics of illegal migrants, the implications of illegal migration and the policies being implemented to counteract increases in illegal migration

As well, papers were presented by two SSC members to the Committee. Fred Langeweg provided an overview of the work he is involved in at the RIVM. Karen O’Brien presented a paper on “Climate Change Impacts in the Context of Economic Globalization”.

Links to Other Projects

In order to meet the objectives outlined in the GECHS Science Plan, the SSC members continue their involvement with other GEC organisations and initiatives. The contributions to those projects directly related to GECHS’ science themes and research objectives are outlined below. Individual SSC members are involved with other projects and initiatives which contribute to and support the objectives of GECHS. They range from chairing sessions at conferences to meetings with potential funders. These activities are outlined in Appendix C.

Contributions to Related Projects

Earth Systems Science Partnership (ESSP)

This is an informal partnership among IHDP, Diversitas, IGBP and WCRP to promote cooperation. There are three joint projects (Water, Carbon & GECAFS) which are the first initiatives of this partnership. GECHS is directly involved in two of these as well as in discussions about a possible joint project on urbanization:

GECAFS

Mike Brklacich continues as vice-chair of GECAFS and remains a central part of GECHS-related activities. GECAFS has now identified its science themes and objectives. Funding has been secured for the next two years. Planned activities include workshops and a review of issues of vulnerability to food systems

Water

While GECHS has been only intermittently involved during the past year, this theme remains important to the interests of the project. The project has moved forward to establish a scoping team and to develop its central themes and objectives without direct input from GECHS. Therefore, the IPO will designate a delegate to this joint project to ensure that GECHS interests are represented.

Urbanisation

At the IHDW workshop held in Bonn, there was agreement that urbanization should be on the IHDP agenda, but it is not certain yet whether it will be pursued as a joint project or just take a more predominant position for all of the core projects. The SSC agreed that it is desirable to

support the development of this theme, whether it is as a core project or as a joint ESSP project. Both Chris Cocklin and Kwasi Nsiah-Gyabaah represent GECHS.

Contributions to Other Projects

GLOBEC Focus 4

The Global Ocean Ecosystem Dynamics (GLOBEC) held a scoping meeting in June relating to their focus on “Changes in Marine Ecosystem Structure”. Given the relationship to coastal zones, there appears to be potential for collaboration. Maureen Woodrow will follow the development of this project to determine the extent of GECHS involvement.

IHDP-IGBP Joint Land-Related Project

With LUCC due to complete its mandate in October 2005, IHDP and IGBP have begun discussions about establishing a new joint land-related project which would encompass more interaction with other scientific activities. Edgar Gutierrez-Espeleta attended a scoping meeting held in October 2002. He will continue as the GECHS representative and will monitor development of this project.

Publications

Publications of the individual SSC members are reported on in Appendix A. This section reports on GECHS publications.

1. Lonergan, S.C., C. Cocklin & A. Wolf (eds.) with W. Ollis & J. Fraser. *Water and Human Security in Southeast Asia and the Pacific*. This volume includes the proceedings of two workshops (held in Australia in October 1998 and in Thailand in September 1999). After UNU Press decided not to proceed with the publication of this book, Elsevier Press was contacted and has now agreed to publish it. The editors anticipate that the final manuscript will be submitted in January 2003.
2. *AVISO* — Steve Lonergan continues to coordinate the publication of the AVISO series of policy bulletions. There have been no AVISO issues published in the past year, in part due to difficulties in authorship. The Managing Editor has stepped down and this too has affected progress. However, we have two issues, one on Urbanization and the other on Environmental Change and Gender, which have been reviewed and will be published in the first half of 2003. A first draft of a third article on Vulnerability to GEC, co-authored by Karen O’Brien and Colleen Vogel, has been submitted, and Nils Petter Gleditsch has agreed to write one in January on Population Pressure and Conflicts. It is also hoped to have an issue on Energy and Human Security, the timeframe for submission of this article has not yet been confirmed. Once these four issues have been published the funds from USAID will have been expended. Procter & Gamble funding includes money for one more issue, and there are also funds allocated under the ICSU grant for the Southern Africa Vulnerability Initiative for one issue. In addition, there are plans to do a couple of briefings related to these issues.
3. *GECHS Identity Book* — Work has begun on an edited volume which will focus on establishing what GECHS is about and what our definition of human security and other key concepts are. A Focus Report on conceptual issues already drafted by Richard Matthew with Fred Langeweg and Betsy Hartmann will serve as the foundation for further

development. Most members of the SSC and the GECHS Executive Officer will contribute chapters, others will also be approached to submit chapters, with particular attention paid to involving those from developing countries. Richard Matthew will take the lead on the project, with other SSC members being involved to help shape the book. The goal is to submit a manuscript to the publisher in time for distribution at the GECHS workshop to be held in 2004.

Programme Offices

The programme offices were originally established with the intention of providing GECHS with more visibility, of sharing the workload, of giving some sense of ownership to the SSC, and of promoting SSC members' position with their home institutions. During the past year the levels of activity at each of the four programme offices has varied in proportion to the support available from each host country/institution. A brief report on each of the offices follows.

Australia — Chris Cocklin heads the Australia Programme Office. The most important activities over the past year developed through the Australia office are the work related to the Mekong River. Contacts at the Mekong River Commission have been established and there has been some collaboration on some of MRC's projects. While a proposal with MRC submitted to SARCS was not funded, efforts continue to explore future collaborations. APN has not continued funding for the SE Asia project on Water Security in Urban Areas which was led by Richard Berk with CC as a silent partner.

Norway — Nils Petter Gleditsch heads the Norway Programme Office. The office was founded in Spring 1999. The office is operated as a project within the Conditions of War and Peace program at the International Peace Research Institute, Oslo. Work is being completed on a new data set related to Armed Conflicts 1989-2000 which is able to provide data on a level of 25 battle deaths. Further work is being done to improve the geographical specificity of conflicts. As well, the Norway office is working with the Liu Centre at UBC to collect data on conflicts using an expanded definition which includes inter-communal conflicts and genocide. A proposal had been submitted to the Research Council of Norway for funding for a Centre for Study of Civil War. Funding has now been confirmed with funding for many activities for 1.3 million/year for 10 years.

California — Richard Matthew heads the programme office established in July 1999 at the University of California, Irvine. The office is linked with other UC entities, such as Global Peace & Conflict Studies and has in-kind support from the University. Efforts have been focused over the past year on several key areas enhancing publication record in quality journals, expanding base and size at UCI, raising additional funding and expanding research on global change, terrorism and environment, which included a workshop and a working paper series. Richard Matthew and other researchers have given a number of presentations, including at the WSSD, and have produced a number of articles which will be published shortly.

Costa Rica — Edgar Gutierrez-Espeleta directs the Costa Rica Programme Office. The difficulties in establishing a GECHS office continue for reasons cited at previous meetings, i.e. lack of funding for mid-developed countries, perception that human security is not a "Southern" issue, and a lack of support from the university. However, links to the UCI office have been of assistance with a temporary posting of a research assistant who worked on several projects.

Financial Report

Revenues for the calendar year ended December 31, 2002 total \$58,000 USD with the major funders being IHDP and Procter & Gamble. P & G's funding runs from July 1st to June 30th. Expenditures total \$54,000 US with most of this being allocated to two areas, salaries and the SSC meeting. While it remains critical to the project's objectives to hold its meetings in developing countries, the costs associated with doing this are high. Recommendation: Rotate location of the annual SSC meeting, holding it one year in a developing country and the next year in association with another meeting in order to keep meeting costs within the budget overall. A full financial report is available on request.

IPO Relocation and Stabilization

The IPO has been relocated to Carleton University at the end of August 2002. The new Executive Officer, Maureen Woodrow, was hired effective August 26th. The new position includes responsibilities for both the research program and project management. Maureen Woodrow brings a lot of project management expertise and her research interests include coastal zones and sustainable livelihoods. After researching the environmental and human rights record of Procter & Gamble and confirming an overall positive record, a proposal was submitted to P & G in January 2002 to fund the project office for \$100,000 CDN per year. P & G has confirmed funding of \$60,000 CDN per year for 2 years. This is sufficient to cover only one fulltime position, plus some support for several AVISO issues, and one graduate research fellowship.

GECHS SSC Members

At the end of 2001 there had been one position vacant. This position was filled in March 2002 by Kwasi Nsiah-Gyabaah. Edgar Gutierrez-Espeleta will rotate off the SSC in mid-2003. As of 31 December 2002, the GECHS SSC included

Mike Brklacich, Department of Geography & Environmental Studies, Carleton University, Ottawa, Canada,

Chris Cocklin, School of Geography and Environmental Science, Monash University, Clayton, Australia

Nils Petter Gleditsch, International Peace Research Institute, Oslo, Norway

Edgar Gutierrez-Espeleta, Development Observatory, San Jose, Costa Rica

Elizabeth Hartmann, Population and Development Program, Hampshire College, Amherst, USA

Fred Langeweg, National Institute of Public Health and the Environment, Bilthoven, The Netherlands

Steve Lonergan, Department of Geography, University of Victoria, Canada

Richard Matthew, School of Social Ecology, UCI, Irvine, USA

Elena Nikitina, Institute of World Economy and International Relations, Moscow, Russia

Kwasi Nsiah-Gyabaah, Sunyani Polytechnic Institute, Ghana

Karen O'Brien, CICERO, University of Oslo, Oslo, Norway

Appendix A

GECHS PUBLICATIONS - 2002

Cocklin, Chris, 2002. 'Water and 'cultural security'' in Edward Page and Michael Redclift, eds., *Human Security and the Environment*. London: Edward Elgar Publishing (154-178).

Cocklin, Chris, Water and Global Environmental Change, *IHDP Update*, 03/2002, (4-5).

de Soysa, Indra and Nils Petter Gleditsch, 2002. 'The Liberal Globalist Case', in Björn Hettne & Bertil Odén, eds., *Global Governance in the 21st Century: Alternative Perspectives on World Order*. Stockholm: Almqvist & Wiksell, for Expert Group on Development Issues, Swedish Ministry of Foreign Affairs (26-73).

de Soysa, Indra, 2002a. 'Paradise is a Bazaar? Greed, Creed, and Governance in Civil War', *Journal of Peace Research* 39(4): 395-416.

de Soysa, Indra, 2002b. 'Ecoviolence: Shrinking Pie or Honey Pot?', *Global Environmental Politics* 2(4): 1-27.

Fernández-Gongález, Álvaro Y. and Edgar Gutiérrez-Espeleta, 2002. 'Fresh Water in Costa Rica: Abundant yet Constrained', in E.A. Page and M. Redclift, eds, *Human Security and the Environment*. London: Edward Elgar Publishing (267-284).

Gaulin, Ted 2002. 'To Cultivate a New Model: Where de Soysa and Gleditsch Fall Short', *Environmental Change and Security Project Report* 6.

Gleditsch, Nils Petter and Henrik Urdal, 2002. 'Ecoviolence? Links Between Population Growth, Environmental Scarcity, and Violent Conflict in Homer-Dixon's Work', *Journal of International Affairs* 56 (1), in press.

Gleditsch, Nils Petter., 2002. 'Environmental Conflict: Neomalthusians vs. Cornucopians', in Hans Günther Brauch, ed., *Security and the Environment in the Mediterranean: Conceptualising Security and Environmental Conflicts*. Berlin: Springer, in press.

Gleditsch, Nils Petter and Bjørn Otto Sverdrup, 2002. 'Democracy and the Environment' in Edward Page & Michael Redclift, eds., *Human Security and the Environment: International Comparisons*, London: Edward Elgar Publishing (27-70).

Gregory, Peter., Mike Brklacich, John Ingram, and Douglas Whelpdale, 2002. *Global Environmental Change and Food Provision: A New Role for Science*. ICSU Series on Science for Sustainable Development, No. 7.

Hartmann, Betsy, 2002. 'The Changing Faces of Population Control in Jael Silliman & Anannya Bhattacharjee, eds., *Policing the National Body: Race, Gender and Criminalization*. Boston: South End Press.

Hartmann, Betsy, 2002. 'Degradation Narratives: Over-Simplifying the Link Between Population, Poverty and the Environment', *IHDP Update* 4 (6-8).

Lonergan, Steve, Langeweg, Fred and Henk Hilderink 2002 'Global Environmental Change and human security: what do indicators indicate?' in Edward Page and Michael Redclift, eds., *Human Security and the Environment*. London: Edward Elgar Publishing (224-243).

Matthew, Richard A and Ted Gaulin, 2002. 'The Ecology of Peace', *Peace Review* 14 (1). (33-40).

Matthew, Richard, 2002. *Dichotomy of Power: Nation Versus State in World Politics*. Lexington Books.

Matthew, Richard, Mark Halle, and Jason Switzer, eds, 2002. *Conserving the Peace: Resources, Livelihoods and Security*. Geneva: IISD.

Matthew, Richard 2002. 'In Defence of Environment and Security Research', in *Environmental Change and Security Project Report*, Woodrow Wilson International Centre for Scholars, Issue No. 8 (109-124).

Matthew, Richard, Stefan Brem, & Ken Rutherford, eds., (forthcoming 2003). *Reframing the Agenda*. New York: Praeger Press.

Matthew, Richard, Bryan McDonald, and Ken Rutherford, eds., (forthcoming 2003). *War's Hidden Legacy: Human Security and the Mine Ban Treaty*. Albany: SUNY.

Nsiah-Gyabaah, Kwasi, 2002. 'Human Security and the Environment in Sub-Saharan Africa: the Challenge of the New Millennium', in Edward Page and Michael Redclift, eds., *Human Security and the Environment*. London: Edward Elgar Publishing (224-243).

GECHS PRESENTATIONS 2002

M. Brklacich. (i) Developing Scenarios for the Global Environmental Change and Food Systems Project (GECAFS) (ii) Human Vulnerability to Global Environmental Change: Bridging the Sciences. Presented to GECAFS Scientific Committee, Port of Spain, Trinidad, 24 April 2002.

M. Brklacich. Environment and Development at Carleton University: A Leadership Opportunity to Reduce Environmental Risks and Improve Human Lives. Presented to the Executive Committee, FASS Development Campaign, Carleton University, Ottawa, Canada, 18 February 2002.

M. Brklacich. GLOBEC-GECHS-GECAFS: Opportunities for Joint Research. Presented to GLOBEC Focus 4 Planning Workshop, Victoria, 26-28 June 2002.

M. Brklacich. Vulnerability, Disaster Reduction & Global Environmental Change: A Human Dimensions Perspective. Presented to the International Symposium on Disaster Reduction and Global Environmental Change organized by the German Foreign Office, German Committee for Disaster Reduction & German National Committee on Global Change Research. Berlin, 20-21 June 2002.

M. Brklacich. Food Security and Global Environmental Change. Presented to ICSU 27th General Assembly, Rio de Janeiro, 24-28 Sept 2002

M. Brklacich & K. O'Brien. Vulnerability and Climatic Change: Presented to the International Conference on the Social Sciences and Social Policy organized by ISSC and UNESCO, Vienna, 9-11 Sept 2002.

Buhaug, Halvard, Scott Gates, and Päivi Lujala, 2002. *Lootable Natural Resources and the Duration of Armed Civil Conflict, 1946–2001*. Paper presented at the 36th Annual Meeting of the Peace Science Society (International), Tucson, AZ, 1-3 November.

Sørli, Mirjam, 2002. *Resources, Regimes and Rebellion*, paper presented at the 43rd Annual Meeting of the International Studies Association, New Orleans, LA, 24-27 March. Paper and data posted at www.prio.no/cwp/datasets.asp.

Urdal, Henrik, 2002a. *The Devil in the Demographics: How Youth Bulges Influence the Risk of Domestic Armed Conflict 1950–2000*, paper presented at the 43rd Annual Meeting of the International Studies Association, New Orleans, LA, 24-27 March.

NEW GECHS FUNDING 2002

Brklacich, Mike, Karen O'Brien, and Coleen Vogel, 2003. *Southern Africa Vulnerability Initiative*. International Council for Science (Note: Funding via IHDP to GECHS IPO).

Ingram, John and Mike Brklacich, 2002-2004. *Vulnerability of Food systems to Global Environmental Change*. UNESCO, International Contribution for Scientific, Educational and Cultural Activities, Global Environmental Change and Food Security (Note: Funding via GECAFS IPO, with GEFAS IPO as executing agency for 2003).

Gleditsch, Nils Petter, 2000-2002. *Environmental Change, Good Governance, Development and Human Security*. Research Council of Norway.