

## Marion Glaser



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### Summary

Marion Glaser leads the Social-Ecological Systems Analysis Group at the Leibniz Center for Tropical Marine Ecology (ZMT), Bremen, Germany. Following studies in economics and political science at the University of Cologne, she obtained a PhD in rural sociology at Bath University and her professorial qualifications (Habilitation) from the Humboldt University, Berlin and the University of Bremen. After a number of engagements in development cooperation, policy advice and in research on self-help housing, agriculture and irrigation management, forestry, flood control and coastal management in Colombia, Bangladesh and Belize she coordinated the social science group of the Brazilian Mangrove Dynamics and Management (MADAM) programme (1996-2005) and led the “Governance and Management of Coastal Social-Ecological Systems” Project in the Science for the Protection of Indonesian Coastal Ecosystems (SPICE) programme (2007-2010). She was twice elected on the Scientific Steering Committee of the global LOICZ (Land-Ocean Interaction in the Coastal Zone project, was member of its Executive Board and Interim Director/CEO for LOICZ until 2015, and is Vice President of the German Society for Human Ecology (DGH). Her current research analyses the integrated dynamics and governance and management options for coastal and marine social-ecological systems. In collaboration with natural scientists, she engages in transdisciplinary sustainability analyses using participatory methods, agent-based modelling and more recently social network analysis, to elucidate the options for sustainability oriented resilience management and social-ecological transformation. Marion Glaser has taught at the University of Bremen, Germany, Bath University, U.K., the Universidade Federal do Pará, Brazil, Hasanuddin University and Bogor Agricultural University in Indonesia and (co) authored and edited over 50 articles and books.

## Education and Academic Titles

- Habilitation (Umhabilitierung) in *Social Ecology of Coastal Areas* at the Institute of Geography, University of Bremen, Germany (2013)
- Habilitation (professorial qualification) in Rural Sociology Faculty of Agriculture and Horticulture, Humboldt University Berlin, Germany. (2006)
- PhD (Rural Sociology) from the University of Bath, UK supervisor Geof Wood, with scholarship by Bath University. (1989)
- Master of Science in Development Studies, (Economics/Sociology/Political Science) University of Bath, UK (1983)
- Zwischenprüfung (BA equivalent) Economics and Political Science (German course title: Volkswirtschaft sozialwissenschaftlicher Richtung), University of Cologne, Germany (1981)
- International Baccalaureate, United World College of the Atlantic, South Wales, UK, with scholarship from the German National Academic Foundation (1978)

## Current Functions

- Interim Director and Chief Executive Officer of the Land-Ocean Interactions in the Coastal Zone Project (until 31.12.2014)
- PD (professorial level) at the Humboldt University (Berlin) Faculty of Agriculture and Horticulture, (since 2006) and at the University of Bremen, (FB8, Geography)
- Leader of Social-Ecological Systems Analysis (SES) Group, Leibniz Center for Tropical Marine Ecology, Bremen
- Vice-President of German Society for Human Ecology
- Member of Executive Board and Scientific Steering Committee of the Land-Ocean Interaction in the Coastal Zone (LOICZ) Programme
- Editorial Board member of the Journals *Ecology and Society*, *Sustainability* and *Journal of Indonesian Coral Reefs*

## Research Interests

My research develops and interfaces social science knowledge to support the development of sustainable human-nature relations. Drawing on long-term academic and participatory action research into regional development in Bangladesh, Belize, Brazil and Indonesia I am now also actively engaged in the creation of international knowledge and science-policy networks that respond to the “grand challenges” of global sustainability research. My current work explores the potential for transdisciplinary site- and ecosystem-specific collaborations that elucidate social-ecological connectivity and advance cross-scale multi-level analysis of the social drivers of social-ecological change.

## Professional Development

- 2013-2014 Interim Director/CEO of the Land-Ocean Interactions in the Coastal Zone (LOICZ) project
- 2000 to date Coordination of research by the Social-Ecological Systems Group at ZMT. Field research in Indonesia, India and Brazil and smaller projects in Zanzibar, Peru, Taiwan, and Thailand
- 2006–2010 Coordinator of the project *Coastal and Disaster Management for Improving the Preparedness for Natural Extreme Events in Indonesia* and of Research Cluster 6 *The Governance and Management of Indonesian Coastal Social-ecological Systems* in the Science for the Protection of Indonesian Coastal Ecosystems (SPICE) Programme leading a team of 20-30 researchers
- 1996-2005 Social Science Coordinator of the Mangrove Dynamics and Management (MADAM) Programme in North Brazil, leading a research team of 12-20 people
- 1992-1995 Consultant for the Overseas Development Administration (ODA) to the Ministry of Economic Development and the Forest Department, Government of Belize
- 1992 Lecturer in Development Studies and Sociology of Development at the University of Bath, Great Britain
- 1991 Consultant / Teamleader in the *Deep Tubewell II (DTW II) Project*, (Bangladesh) *IBRD/ODA* (Bangladesh, USA): Development of National Minor Irrigation Development Project (NMIDP)  
*OXFAM International* (Great Britain/Bangladesh): Evaluation of the OXFAM Bangladesh Programme
- 1989-90 Sociologist for the German Technical Cooperation Agency (GTZ) in Tangail Agricultural Development Project (TADP) Bangladesh
- 1988-89 Socio-economist, Overseas Development Institute, London

## Teaching

- 2015 “Issues in Development Geography” – B.Sc./B.A. course for Geography students at Fachbereich 8, University of Bremen

- 2014 “Development and the Natural Environment: Trade-offs and tensions between social and ecological sustainability” for Fachbereich 2, University of Bremen.
- 1999-2012 taught two annual courses (2 SWS) in the International Studies in Tropical Ecology (ISATEC) Master course at the University of Bremen, Germany  
 1. *Social Science Research Methods for Social-Ecological Analysis &*  
 2. *Interdisciplinarity between the Natural and Social Sciences in Coastal Management*
- 2007-2009 taught an annual two-week intensive course on social-ecological systems analysis and social science field methods in coral reef environments in Hasanuddin University, Indonesia
- 2009-2010 taught two 10-day summer schools on social-ecological systems analysis for post-graduates and young lecturers at the Centre for Coral Reef Research (CCRR), Hasanuddin University, South Sulawesi, Indonesia.
- 1999–2003 Taught an annual two-week intensive course on *The participatory management of coastal resources* at the Universidade Federal do Pará, Brazil (in Portuguese)
- 1998 Lectured on an international course on *Integrated Coastal Zone Management* at the University of Bremen
- 1992 taught for Prof Dr Geof Wood at the University of Bath, U.K. during his one year sabbatical leave. Courses taught  
 1. *General Sociology (to undergraduates)*  
 2. *Sociology of Development (to postgraduates)*

<b>Student Supervision</b>
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- 2013 ongoing Doctoral Theses (Akuila Cakacaka) Livelihoods and reef use in the Melanesian Pacific (working title)
- 2012 ongoing Doctoral Thesis – Wasistini Baitoningsih: Synergizing Top-down and Bottom-up Approaches: Institutional Solution for Sustainable Coastal and Small Islands Management in Berau, East Kalimantan, Indonesia. *Second Supervisor.*
- 2013 Master Thesis – Veronika Breitkopf: Choice of Fishing Technology, Spermonde, Indonesia (Working Title). *Second Supervisor.*
- 2012 ongoing Doctoral Thesis – Daniella Schaumlöffel (\*Ferrol-Schulte): Livelihood vulnerability and marine natural resource dependency in coastal communities. *First Supervisor.*

- 2012 ongoing Master Thesis – Eike Holzkemper: Reef Governance / MPAs in North-East Brazil (Working Title). *Second Supervisor.*
- 2011 Master Thesis – John Sebit Benansio: Fishery and Tourism Impact in Zanzibar (Working Title). *First Supervisor.*
- 2011 ongoing Doctoral Thesis – Wang Fei: Environmental Impact and Social Implications of Ecotourism in Marine Protected Areas (MPA) - Application of an Agent-bases modelling Approach. *Second Supervisor.*
- 2011 ongoing Master Thesis – Nancy Gilkonjo: MPAs in Zanzibar (Working Title). *First Supervisor.*
- 2011 ongoing Doctoral Thesis – Philipp Gorris: Linking local governance systems for regional-scale coral reef management: Analysis of case studies in Brazil and Indonesia. *First Supervisor.*
- 2011 ongoing Doctoral Thesis – Luz Elba Torres Guevara: A Social-ecological systems framework and coastal zone management in Colombia. *Second Supervisor.*
- 2009 ongoing Doctoral Thesis – Martin Lukas: Land use/land cover change and environmental governance in the Segara Anakan lagoon and its catchment area, Java, Indonesia. *Second Supervisor.*
- 2007 ongoing Milena Arias-Schreiber: Institutions for sustainable fisheries governance. The commercial Peruvian anchovy fishery. *Second Supervisor.*
- 2007 ongoing Doctoral Thesis – Chia-Chi Wu: Multi-actors and multi-criteria marine protected area design in southern Penghu archipelago, Taiwan (Universität Bonn). *First Supervisor.*
- 2010–2012 Doctoral Thesis – Rio Deswandi: Understanding Institutional Dynamics: The Emergence, Persistence, and Change of Institutions in Capture Fisheries in Makassar Spermonde Archipelago, South Sulawesi, Indonesia. *Second Supervisor.*
- 2007–2012 Doctoral Thesis – Irendra Radjawali: Multi-agent social-ecological systems modelling of livelihood strategies and governance in a coastal social-ecological system. *Second Supervisor.*
- 2011 Master Thesis – Philipp Gorris: Nachhaltige Nutzung mariner Ressourcen: Partizipatives Management von Marine Protected Areas auf den Philippinen, Universität Bonn. *Second Supervisor.*

- 2011 Bachelor Thesis – Maria Voigt: The Co-Management approach of the marine Extractive Reserve "Caeté- Taperacu" in northern Brazil: Analysis of selected biological and socio-economic aspects. *Second Supervisor.*
- 2010–2011 Master Thesis – H. M. Moniruzzaman: Female contribution from homestead aquaculture to family livelihood in south-west coastal districts of Bangladesh. *Second Supervisor.*
- 2007-2011 Doctoral Thesis – Lucinaldo Blandtt: Capacitation of social resilience with participatory methodologies, UFPa, Campo Universitario de Belém, Brasilien. *Second Supervisor.*
- 2005–2011 Doctoral Thesis – Neila Cabral: O setor pesqueiro brasileiro e o desempenho das estruturas e sistemas de representação política, Universidade Federal do Pará. *Second Supervisor.*
- 2009–2010 Master Thesis – Eva Suhren: Wie ein Fluss das Leben seiner Anwohner prägt: eine motivierte Interviewstudie mit Anwohnerinnen des Siak in Indonesien. *Second Supervisor.*
- 2009–2010 Master Thesis – Katrin Prüter: Wasserverschmutzung und mögliche Auswirkungen auf die Gesundheit - eine Situationsanalyse am Beispiel des Siak River (Indonesien). *Second Supervisor.*

## Research Funding

- 1996-2005 Developed and coordinated social science component of the *Mangrove Dynamics and Management (MADAM)* Project, Brazil.
- 2006-2007 Initiated German social science cooperation with Indonesia on coastal management. *Coastal and Disaster Management for Improving the Preparedness for Natural Extreme Events in Indonesia.*
- 2007-2010 Science for the Protection of Indonesian Coastal Ecosystems (SPICE II) Cluster 6 *Governance and Management of Indonesian Coastal Social-Ecological Systems* Funding obtained:
- 2012-2014 SPICE III Topic 3 *The Social Drivers of Coral Reef Resilience and their social-ecological repercussions* und Topic 1 *Impacts of Marine Pollution on Biodiversity and coastal livelihoods.*

## Organisation of Academic and Science-Policy Events (selection)

Session on *Governing Across Scales: Toward a sustainability-science knowledge-network on marine-ecosystems: achieving innovative, transdisciplinary stewardship across multiple scales* with Peter Fox, Oran Young, Alida Bundy, and Moeniba Issacs) at the Planet under Pressure Conference, London (March 2012)

Session on *Cross-scale, multi-level analyses in coastal and marine social ecological systems* at LOICZ Open Science Conference in Yantai, China with Bernhard Glaeser (September 2011); and at the Resilience 2011 conference in Tempe, Arizona, U.S.A. with Gesche Krause (March 2011)

Regional Science-Policy Workshop '*People, reefs and fish in Spermonde Archipelago, South Sulawesi - Research findings, policy recommendations and future research needs*' with Regional Planning Authority BAPPEDA South Sulawesi, Indonesia (24 November 2010)

National Science Policy Workshop (SPICE II Cluster 6) *Developing theory and supporting policy through multi-level social-ecological analysis in coastal and marine resources governance* Center for Coastal and Marine Resource Studies (CCMRS), IPB, Bogor, Indonesia (14–15 April 2010)

International Conference of the German Society for Human Ecology, *Human-Nature Interactions in the Anthropocene: Potentials for Social-Ecological Systems Analysis*, Sommerhausen, Germany (May 2008)

Session at the XVth International Conference of the Society for Human Ecology, Rio de Janeiro, Brazil (October 2007)

*Southeast Asia Coastal Governance and Management Forum: Science meets Policy for Coastal Management and Capacity Building* Bali, Indonesia (14–16 November 2006)

## Publications

### *Peer-reviewed*

Ferrol-Schulte D., Ferse S., **Glaser M.** (2014) 'Patron–client relationships, livelihoods and natural resource management in tropical coastal communities.' *Ocean & Coastal Management* 100 (0):63-73.

Suhren, E.J., Devita, F., Prüter, K., Tarumun, S., **Glaser, M.** & Glaeser, B. (2014) 'River Health and Community Health: A Collaborative Action-oriented Social-ecological Analysis', *Asian Journal of Water, Environment and Pollution*, 11 (1): 51-66.

**Glaser, M.** & Glaeser, B. (eds.) (2014) Linking Regional Dynamics in coastal and marine social-ecological systems to global sustainability [Special Issue]. *Regional Environmental Change* 14 (6).

**Glaser, M.**, Glaeser, B. (2014) 'Towards a framework for cross-scale and multi-level analysis of coastal and marine social-ecological systems dynamics.' *Regional Environmental Change* 14 (6):2039-2052. doi:10.1007/s10113-014-0637-5

Ferse, S., **Glaser, M.**, Neil, M., Schwerdtner Máñez, K. (2014) 'To cope or to sustain? Eroding long-term sustainability in an Indonesian coral reef fishery.' *Regional Environmental Change* 14 (6):2053-2066. doi:10.1007/s10113-012-0342-1

Schlüter, A., Wise, S., Schwerdtner Máñez, K., de Moraes, G., **Glaser, M.** (2013) 'Institutional Change, Sustainability and the Sea.' *Sustainability* 5 (12):5373-5390.

Ferrol-Schulte, D., Wolff, M., Ferse, S., **Glaser, M.** (2013) 'Sustainable Livelihoods Approach in tropical coastal and marine social-ecological systems: A review.' *Marine Policy* 42: 253-258.

von Essen, L.M., Ferse, S., **Glaser, M.**, Kunzmann, A. (2013) 'Attitudes and perceptions of villagers towards community-based mariculture in Minahasa, North Sulawesi, Indonesia.' *Ocean and Coastal Management* 73: 101-112.

Ferse, S., **Glaser, M.**, Neil, M., Schwerdtner Mañez, K. (2012) 'To cope or to sustain? Eroding long-term sustainability in an Indonesian coral reef fishery.' *Regional Environmental Change* [online]: 1-13. Available at: <http://www.springerlink.com/content/cv5974132658x685/>.

**Glaser, M.**, Christie, P., Diele, K., Dsikowitzky, L., Ferse, S., Nordhaus, I., Schlüter, A., Schwerdtner Mañez, K., Wild, C. (2012) 'Measuring and understanding sustainability-enhancing processes in tropical coastal and marine social-ecological systems'. *Current Opinion in Environmental Sustainability* 4 (3): 300-308.

Wever, L., **Glaser, M.**, Gorris, P. & Ferrol-Schulte, D. (2012) 'Decentralization and participation in integrated coastal management: Policy lessons from Brazil and Indonesia.' *Ocean & Coastal Management* 66: 63-72.

Ferse, S., Knittweis L., Krause G., Maddusila A. & **Glaser, M.** (2012) 'Livelihoods of Ornamental Coral Fishermen in South Sulawesi/Indonesia: Implications for Management.' *Coastal Management*, 40:5, 525-555.



Ferse, S., **Glaser, M.**, Schultz, C. & Jompa, J. (2012) 'Linking research to Indonesia's CTI Action Plan: the SPICE Program.' 12th International Coral Reef Symposium 9-13 July 2012, Cairns, Australia.

Deswandi, R., **Glaser, M.** & Ferse, S. (2012) 'What makes a social system resilient?' Book Chapter in: Hornidge, A.K. & Antweiler, C. (eds.): *Environmental Uncertainty and Local Knowledge. Southeast Asia as a Laboratory of Global Ecological Change*. Bielefeld: Transcript Publishers, pp. 243-272.

**Glaser, M.** & Glaeser, B. (2012) 'The Social Dimension in the Management of Social-Ecological Change', In: Kremer, H. Pinckney, J. (eds.), *Treatise on Estuarine and Coastal Science, Vol. 11: Integrated Management of Estuaries and Coasts*. München: Elsevier, 59p. available in print and electronically at [www.elsevierdirect.com/esco](http://www.elsevierdirect.com/esco) or <http://www.elsevierdirect.com/article.jsp?pageid=11682>

**Glaser, M.**, Krause, G., Ratter, B.M.W. & Welp, M. (eds.) (2012) *Human-Nature Interaction in the Anthropocene: Potentials of Social-Ecological Systems Analysis*, Routledge, 232p.

**Glaser, M.**, Krause, G., Ratter, B.M.W. & Welp, M. (2012) 'New approaches to the analysis of human-nature relations', In: Glaser, M. et al. (eds.) Chapter 1, *Human-Nature Interaction in the Anthropocene: Potentials of Social-Ecological Systems Analysis*, Routledge, pp. 3-12.

**Glaser, M.** (2012) 'Transdisciplinary multi-agent modelling for social-ecological systems analysis: Achievements and Potentials', In: Glaser, M. et al. (eds.) Chapter 8, *Human-Nature Interaction in the Anthropocene: Potentials of Social-Ecological Systems Analysis*, Routledge, pp. 141-160.

**Glaser, M.**, Krause, G., Halliday, A. & Glaeser, B. (2012) 'Towards global sustainability analysis in the Anthropocene', In: Glaser, M. et al. (eds.) Chapter 10, *Human-Nature Interaction in the Anthropocene: Potentials of Social-Ecological Systems Analysis*, Routledge, pp. 193-222.

Halliday, A. & **Glaser M.** (2011) 'A Management Perspective on Social-ecological systems – A generic system model and its application to a case study from Peru'. *Human Ecology review* 18 (1): 1-18.

**Glaser, M.**, Baitoningsih, W., Neil, M. & Ferse, S. (2010) 'Whose sustainability? Top-down participation and emergent rules in protected area management - Local lessons for MPA design from Indonesia', *Marine Policy* (34): 1215-1225.

Glaeser, B. & **Glaser, M.** (2011) 'People, Fish and Coral Reefs in Indonesia. A Contribution to Social-Ecological Research'. *GAIA* 20 (2) 139-141.

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**Glaser, M.**, Radjawali, I., Ferse, S. & Glaeser, B. (2010) 'Nested participation in hierarchical societies? Lessons for social-ecological research and management', *International Journal of Sustainable Society Vol 2 (4):390-414*.

**Glaser, M.**, Krause, G., Oliveira, R.S. & Herazo-Fontalvo, M. (2010) 'Mangroves and People: A Social-Ecological System', *In: Saint Paul, U. and Schneider, H. (eds.), Mangrove dynamics and management in North Brazil*. Ecological Studies Series. Heidelberg, Berlin: Springer: 307-388.

Mondal P, **Glaser M.**, Nishat A, Breckwoldt A. (2010) Co-management approach on fisher group: A case study on *Ramsar* site, *Tanguar haor* in Bangladesh. *Bangladesh Fisheries Research Institute*. 105-116.

Diele, K., Araujo, A., **Glaser, M.** & Salzmann, U. (2010) 'Artisanal fishery of the Mangrove Crab *Ucides cordatus* (Ocypodidae) and First Steps towards a Successful Co-Management in Bragança, N-Brazil', *In: Saint Paul, U. and Schneider, H. (eds.), Mangrove dynamics and management in North Brazil*. Ecological Studies Series. Heidelberg, Berlin: Springer: 287-298.

Ferse, S., Máñez-Costa, M., Schwerdtner Máñez, K., Adhuri D.S. & **Glaser, M.** (2010) 'Allies, not aliens - increasing the role of local communities in MPA implementation', 37 (1):23-34 *Environmental Conservation*.

Reichel, C., Frömming, U. & **Glaser, M.** (2009) 'Conflicts between stakeholder groups affecting the ecology and economy of the Segara Anakan region.' *Regional Environmental Change* [online] Vol. 9, No. 4. on <http://www.springerlink.com/content/78x9108232563797/fulltext.html>

Glaeser, B., Bruckmeier, K., **Glaser, M.** & Krause, G. (2009) 'Social-ecological systems analysis in coastal and marine areas: A path toward integration of interdisciplinary knowledge', *In: Lopes P. and Begossi, A. (eds), Current Trends in Human Ecology*, (183-203), Cambridge, UK: Cambridge Scholars Publishing.

**Glaser, M.**, Krause, G., Ratter B. & Welp, M. (2008) 'Human-Nature Interaction in the Anthropocene: Potential of Social-Ecological Systems Analysis', *GAIA*, Vol.17, No.1, pp. 77-80.

**Glaser, M.** (2008) 'Denkmodelle zu Mensch-Natur Beziehungen: Soziale und ethische Dimensionen', *In: Bruckmeier, K. and Serbser, W. (eds.), Ethik und Umweltpolitik*.

*Humanökologische Positionen und Perspektiven*, (pp. 89-113). Edition Humanökologie. München: Oekom Verlag.

Krause, G., **Glaser, M.** & Lange, H. (2008) 'Soziale Gerechtigkeit in der Küstenzone: Szenarien zum Mangrovenmanagement in Pará (Nordbrasilien)', *In: Bruckmeier, K. and Serbser, W. (eds.), Ethik und Umweltpolitik. Humanökologische Positionen und Perspektiven*, (pp. 324-348). Edition Humanökologie. München: Oekom Verlag.

Lotze, H. & **Glaser, M.** (2008) 'Ecosystem services of semi-enclosed marine systems', *In: Urban, E. R. et al. (eds.) Watersheds, Bays and Bounded Seas. The Science and Management of Semi-enclosed Marine Systems*, (pp. 227-249), Washington DC: Island Press.

Kroeze, C., Middelburg, J., Leemans, R., Fennel, W., **Glaser, M.**, Harashima, A., Liu, K.K. & Meybeck, M. (2008) 'Integrating Tools to assess change in semi-enclosed marine systems', *In: Urban, E. R. et al. (eds.) Watersheds, Bays and Bounded Seas. The Science and Management of Semi-enclosed Marine Systems*, (pp. 77-96), Washington DC: Island Press.

Snelgrove, P., Flitner, M., Ekau, W., **Glaser, M.**, Lotze, H., Philippart, K., Sompongchaiyakul, P., Yuwono, E., Melillo, J., Meybeck, M., Rabalais, N., Sundby, B., Urban, E. & Zhang, J. (2008) 'Governance and Management of Ecosystem Services in Semi-Enclosed Marine Systems', *In: Urban, E. R. et al. (eds.) Watersheds, Bays and Bounded Seas. The Science and Management of Semi-enclosed Marine Systems*, (pp. 49-76), Washington DC: Island Press.

Fontalvo-Herazo, M., **Glaser, M.** & Ribeiro, A. (2007) 'A method for the participatory design of an indicator system as a tool for local coastal management', *Ocean and Coastal Management*, Vol. 50, pp. 779-795.

**Glaser, M.** (2006) 'Estudo de Caso: Interrelaciones entre los ecosistemas de manglares, la economía local y la sustentabilidad social en el estuário de Caeté en el Norte de Brasil', *In: Stolk M. et al. (eds.) Valoración socio-economica de los Humedales en América Latina y el Caribe*. (pp. 30-33), Wageningen, Wetlands International, IUCN.

**Glaser, M.** (2006) 'The social dimension in ecosystem management: Strengths and weaknesses of human-nature mind maps', *Human Ecology Review*, Vol. 13, No. 2, pp. 122-142.

**Glaser, M.**, Krause, G., Saint-Paul, U., Harms, J. & Boehme, G. (2006) 'Fachübergreifende Nachhaltigkeitsforschung - Das brasilianisch-deutsche Mangroven Projekt MADAM', *In: Glaeser, B. (ed.) Fachübergreifende Nachhaltigkeitsforschung. Stand und Visionen am Beispiel nationaler und internationaler Forscherverbände*, (pp. 265-297), Edition Humanökologie. München: Oekom Verlag.

**Glaser, M.** & Krause, G. (2005) 'Integriertes Küstenmanagement im föderalen Brasilien: Institutionelle, sektorale und legale Strukturen und die Grenzen der partizipativen Planung', In: Glaeser, B. (ed.) *Küste, Ökologie und Mensch – Integriertes Küstenmanagement als Instrument nachhaltiger Entwicklung*, (pp. 37–54), Edition Humanökologie. München: Oekom Verlag.

Glaeser, B., Gärtner, T., **Glaser, M.**, Janssen, G., Kannen, A., Krause, G. & Schernewski, G. (2005) 'Integriertes Küstenmanagement (IKZM) als Instrument nachhaltiger Entwicklung: Probleme, Perspektiven und Empfehlungen', In: Glaeser, B. (ed.) *Küste, Ökologie und Mensch – Integriertes Küstenmanagement als Instrument nachhaltiger Entwicklung*, (pp. 311–334), Edition Humanökologie. München: Oekom Verlag.

**Glaser, M.** & Diele, K. (2004) 'Asymmetric Outcomes: Assessing the biological, economic and social sustainability of a mangrove crab fishery, *Ucides cordatus* (Ocypodidae), in North Brazil', *Ecological Economics*, Vol. 49, No. 3, pp.361–373.

**Glaser, M.** & da Silva Oliveira, R. (2004) 'The prospects for co-management of mangrove ecosystems on the North Brazilian coast – Whose rights, whose duties and whose priorities?', *Natural Resources Forum*, Blackwell Publishing, Vol. 28, pp. 224–233.

**Glaser, M.** (2003) 'Ecosystem, local economy and social sustainability: A case study of Caeté estuary, North Brazil', *Wetlands Ecology and Management*, Vol.11, No. 4, pp. 265–272.

**Glaser, M.**, Berger, U. & Macedo, R. (2003) 'Local vulnerability as an advantage: Mangrove forest management in Pará state, North Brazil under conditions of illegality', *Regional Environmental Change*, Vol.3, No. 4, pp.162–172.

**Glaser, M.** & Krause, G. (2003) 'User-based mangrove co-management in Brazil', In: CIP-UPWARD *Conservation and sustainable use of agricultural biodiversity. A Sourcebook*, Vol. 3, (pp. 559–564). Los Baños, Laguna, Philippines: International Potato Center – Users perspectives with agricultural research and development.

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Krause, G., Schories D., **Glaser M.** & Diele, K. (2001) 'Spatial patterns of mangrove ecosystems: The Bragantian mangroves of North Brazil (Bragança, Pará)'; *Ecotropica*, Vol. 7, pp.93–107.

Berger, U. & **Glaser, M.** (2000) 'Unwissenheit und Risiko beim Management von Mangrovegebieten am Beispiel der Halbinsel von Bragança an der Küste von Nord-Ost-Pará, Brasilien'. In: Breckling, B., Müller, F. (Hrsg.) *Der Ökologische Risikobegriff* Beiträge zu einer Tagung des Arbeitskreises «Theorie» in der Gesellschaft für Ökologie vom 4.-6. März 1998 im Landeskulturzentrum Salza (Schleswig-Holstein), (pp. 26–36) Frankfurt/M.: Peter Lang.

**Glaser, M.** & Grasso, M. (2000) 'Multiple assessment methodologies: Economic valuation of a mangrove ecosystem: Practical implications for management', *INTERCOAST Coastal Resources Center, University of Rhode Island*, Vol. 35, pp. 27–29.

Berger, U., **Glaser, M.**, Koch, B., Krause, G., Lara, R., Saint-Paul, U., Schories, D., Wolff, M. (1999) 'MADAM - An Integrated Approach to Mangrove Dynamics and Management', *Journal of Coastal Conservation* 5: 125-134.

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