

## **David Gibbs McGrath**

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### **Education:**

1989 Ph.D., Geography, University of Wisconsin-Madison, Madison, WI  
1983 M.A., Geography and Regional Development, University of Arizona, Tucson, AZ  
1976 B.A., Special Concentration: "Man and Environment", Harvard University, Cambridge, MA

### **Professional Employment**

2013-Present Senior Scientist and Deputy Director, Earth Innovation Institute, San Francisco, CA.  
2012-Present Professor, Doctoral Program. Federal University of Western Pará, Santarém, BR  
2004-2005 Adjunct Professor, Yale School of Forestry and Environmental Science, Yale University, New Haven  
2001-2013 Associate Scientist, Woods Hole Research Center, Woods Hole, MA.  
1998-2011 Professor, Núcleo de Altos Estudos Amazônicos (NAEA), Universidade Federal do Pará, Belém, PA.  
1992-1998 Visting Professor, Núcleo de Altos Estudos Amazônicos, Universidade Federal do Pará, Belém, PA.  
1990-1992 Post-Doctoral Fellow, Ecology Department, Pennsylvania State University, State College.  
1988-1990 Visiting Assistant Professor, Geography Department, University of New Mexico, NM.

## Publications and Major Reports

### Peer Reviewed Papers: (42)

- 2016 Lucas, C.M., P. Sheikh, P.R. Gagnon, and D.G. McGrath. How livestock and flooding mediate the ecological integrity of working forests in Amazon River floodplains. *Ecological Applications* 26(1): 190-202.
- 2016 Oviedo, A.F., Mitraud, S., D.G. McGrath, M. Bursztyn. Implementing climate variability at the community level in the Amazon floodplain. *Environmental Science & Policy* 63: 151-160.
- 2015 McGrath, D., L. Castello, O. T. Almeida, and G. Estupiñan. Market Formalization, Governance and the integration of Community Fisheries in the Brazilian Amazon. *Society and Natural Resources* 28(5): 513-529.
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- 2014 Lucas, C. M., J. Schöngart, P. Sheikh, F. Wittmann, M. T.F. Piedade, and D. G. McGrath. 2014. Effects of land-use and hydroperiod on aboveground biomass and productivity of secondary Amazonian floodplain forests. *Forest Ecology and Management* 319: 116-127.
- 2014 Nepstad, D., D. McGrath, C. Stickler, A. Alencar, A. Azevedo, B. Swette, T. Bezerra, M. DiGiano, J. Shimada, R. Seroa da Motta, E. Armijo, L. Castello, P. Brando, M. C. Hansen, M. McGrath-Horn, O. Carvalho, and L. Hess. 2014. Slowing Amazon deforestation through public policy and interventions in beef and soy supply chains *Science* 344(6188): 1118-1123.
- 2013 Castello, L., D. McGrath, L. Hess, M. Coe, P. Lefebvre, P. Petry, M. Macedo, V. Renó, and C. Arantes. 2013. The Vulnerability of Amazon Freshwater Ecosystems. *Conservation Letters* 6(4): 217–229.
- 2013 Stickler, C., M.T. Coe, M.H. Costa, D.C. Nepstad, D.G. McGrath, L.C.P. Dias, H.O. Rodrigues, and B.S. Soares-Filho. 2013. Dependence of hydropower energy generation on forests in the Amazon Basin at local and regional scales. *Proceedings of the National Academy of Sciences* 110(23): 9601-9606. Doi: 10.1073/pnas.1215331110.
- 2013 Stickler, C.M., D.C. Nepstad, A.A. Azevedo and D. G. McGrath. 2013. Defending public interests in private lands: compliance, costs and potential environmental consequences of the Brazilian Forest Code in Mato Grosso. *Phil. Trans. R. Soc. B* 368(1619), 20120160.
- 2013 L. Castello, D.G. McGrath, C.C. Arantes, and O.T. Almeida. 2013. Accounting for heterogeneity in small-scale fisheries management: The Amazon case. *Marine Policy* 38: 557–565.
- 2011 Hajjar, R., D.G. McGrath, R.A. Kozak, and J.L. Innes. 2011. Framing community forestry challenges with a broader lens: Case studies from the Brazilian Amazon. *Journal of Environmental Management* 92: 2159-2169.
- 2011 Nepstad, D., D. McGrath, and B. Soares-Filho. 2011. Systemic Conservation, REDD, and the Future of the Amazon Basin. *Conservation Biology* 25(6):1113-6.
- 2011 Castello, L., D.G. McGrath and P. Beck. 2011. Resource sustainability in small-scale fisheries in the Lower Amazon floodplains. *Fisheries Research* 110: 356-364.
- 2009 Almeida, O.T., D. McGrath, M. Ruffino and S. Rivero. 2009. Estrutura, dinâmica e

- economia da pesca comercial do baixo Amazonas. *Novos Cadernos do NAEA* 12(2): 175-194.
- 2009 Nepstad, D., B.S. Soares-Filho, F. Merry, A. Lima, P. Moutinho, J. Carter, M. Bowman, A. Cattaneo, H. Rodrigues, S. Schwartzman, D.G. McGrath, C.M. Stickler, R. Lubowski, P. Piris-Cabezas, S. Rivero, A. Alencar, O. Almeida, and O. Stella. 2009. The End of Deforestation in the Brazilian Amazon. *Science* 326: 1350-51.
- 2009 Stickler C.M., D.C. Nepstad, M.C. Coe, H.O. Rodrigues, D.G. McGrath, E.A. Davidson, W.S. Walker, and B.S. Soares-Filho. 2009. The potential ecological costs and cobenefits of REDD: a critical review and case study. *Global Change Biology* 15: 2803-2824.
- 2008 Almeida, O.T., K. Lorenzen and D.G. McGrath. 2008. Fishing agreements in the lower Amazon for gain and restraint. *Fisheries Management and Ecology* 16: 61-67.
- 2008 Martelo, J., K. Lorenzen, M. Crossa and D.G. McGrath. 2008. Habitat associations of exploited fish species in the Lower Amazon river–floodplain system. *Freshwater Biology* 53(12): 2455–2464.
- 2008 Oliveira, A.C.M., D. Nepstad, D. McGrath and A.F. da Silva. 2008. Impactos ecológicos do manejo comunitário de recursos naturais em comunidades ribeirinhas de várzea e terra firme na região de Tefé, AM. *Novos Cadernos do NAEA* 11(2): 57-84.
- 2008 McGrath, D., A. Cardoso, O.T. Almeida, and J. Pezzuti. 2008. Constructing a policy and institutional framework for an ecosystem-based approach to managing the lower Amazon floodplain. *Environment, Development and Sustainability* 10: 677-695.
- 2007 McGrath, D., O.T. Almeida and F.D. Merry. 2007. The influence of community management agreements on household economic strategies: cattle grazing and fishing agreements on the lower Amazon floodplain. *International Journal of the Commons* 1(1): 101-121.
- 2006 Sheikh, P., F. Merry, and D. McGrath. 2006. Water buffalo and cattle ranching in the lower amazon basin: comparisons and conflicts. *Agricultural Systems* 87: 313-330.
- 2006 McGrath, D.G. and E.M. do C. Dias. 2006. Soja na amazônia: impactos ambientais e estratégias de mitigação. *Ciência e Ambiente* 32: 151-165.
- 2005 Soares Filho, B.S., D. Nepstad, L. Curran, G. Cerqueira, R. Garcia, C. Ramos, E. Voll, A. McDonald, P. Lefebvre, P. Schlesinger, and D. McGrath. 2005. Cenários de Desmatamento para a Amazônia. *Estudos Avançados* 19(54): 137-152.
- 2004 Nepstad, D., C. Azevedo-Ramos, E. Lima, D. McGrath, C. Pereira, and F. Merry. 2004. Managing the Amazon Timber Industry. *Conservation Biology* 18(2): 1-3.
- 2004 Merry, F., P. Sheikh, and D.G. McGrath. 2004. The Role Informal Contracts in the Growth of Small Cattle Herds on the Floodplains of the Lower Amazon. *Agriculture and Human Values* 21(1): 377-386.
- 2003 Almeida, O., K. Lorenzen, and D.G. McGrath. 2003. Commercial fishing in the Brazilian Amazon: regional differentiation in fleet characteristics and efficiency. *Fisheries Management and Ecology* 10: 109-115.
- 2003 Castro, F. De and D.G. McGrath. 2003. Moving toward sustainability in the local management of floodplain lake fisheries in the Brazilian Amazon. *Human Organization* 62(2): 123-133.
- 2003 Benatti, J.H., D.G. McGrath, and A.C. Mendes. 2003. Políticas Públicas e manejo comunitário de recursos naturais da Amazônia. *Ambiente e Sociedade* VI(2): 137-154.

- 2002 Almeida, O., K. Lorenzen, and D. McGrath. 2002. Commercial fishing in the Brazilian Amazon: regional differentiation in fleet characteristics and efficiency. *Fisheries Management and Ecology* 9: 1-7.
- 2002 Carvalho, G., D. Nepstad, D. McGrath, M. Diaz, M. Santilli and A.C. Barros. 2002. Frontier expansion in the Amazon. *Environment* 44(3): 34-42.
- 2002 Nepstad, D., D. McGrath, A. Alencar, A. Barros, G. Carvalho, M. Santilli, and C. Vera Dias. 2002. Response-Issues in Amazonian Development. *Science* 295: 1643-1644.
- 2002 Nepstad, D., D. McGrath, A. Alencar, A. Barros, G. Carvalho, M. Santilli, and C. Vera Dias. 2002. Frontier Governance in Amazonia. *Science* 295: 629-630.
- 2001 Castro, F.E. and D. McGrath. 2001. O manejo comunitario de lagos na Amazonia. *Parcerias Estrategicas* 12: 112-126.
- 2001 Almeida, O., D. McGrath, and M. Ruffino. 2001. The Commercial Fisheries of the Lower Amazon: An Economic Analysis. *Fisheries Management and Ecology* 8(3): 15-35.
- 1999 Joly, C.A., M.P. Aida, C.A. Klink, D. McGrath, A. Moreira, P. Moutinho, D. Nepstad, A. Oliveira, A. Pott, M. Rodal, and E. Sampaio. 1999. Evolution of the Brazilian Phytogeography classification systems: implications for biodiversity conservation. *Ciência e Cultura* 51(5/6): 331-348.
- 1999 Crossa, M. and D.G. McGrath. 1999. Mercury accumulation in flesh muscle of “pirarucu” *Arapaima gigas* in lower amazonian varzea. *Boletim do Museu Paraense Emílio Goeldi, Série Zoologia* 15: 7-22.
- 1999 McGrath, D. 1999. Parceiros no Crime: o regatão e a resistência cabocla na Amazônia Tradicional. *Cadernos do NAEA* 2(2): 57-72.
- 1998 McGrath, D., F. De Castro, E. Câmara, and C. Futemma. 1998. Manejo Comunitário de Lagos de Várzeas e o Desenvolvimento sustentável da Pesca na amazônia. *Cadernos do NAEA* 1(2).
- 1998 McGrath, D., U.E. Silva, and N. Crossa. 1998. A traditional floodplain fishery of the lower Amazon river, Brazil. *NAGA* (Jan-Mar): 4-11.
- 1995 Camara, E. and D. McGrath. 1995. A viabilidade da reserva de lago como unidade de manejo sustentável dos recursos da varzea amazônica. *Boletim do Museu Pareense Emílio Goeldi, Ser. Antro* 11(1): 87-132.
- 1993 McGrath, D.G., F. De Castro, C.R. Futemma, B.D. de Amaral, and J.C. de Araujo. 1993. Fisheries and the evolution of resource management on the lower Amazonian floodplain. *Human Ecology* 22(2): 167-195.
- 1993 McGrath, D.G., J.C. de Araujo, B.D. de Amaral, C.R. Futemma, and F. De Castro. 1993. Várzeiros, geleiros e o manejo de recursos naturais na várzea do Baixo Amazonas. *Cadernos do NAEA* 11 (November): 91-125.
- 1987 McGrath, D.G. 1987. The role of biomass in shifting cultivation. *Human Ecology* 15(2): 221-242.

#### **Book Chapters: (26)**

- 2015 McGrath, D. and L. Castello. Integrating fishers’ ecological knowledge and the ecosystem based management of tropical inland fisheries: An Amazon case study. In J. Fischer, J. Jorgensen, H. Josupeit, D. Kalikoski, & C. M. Lucas (Eds.), *Fishers’ Knowledge and the Ecosystem Approach to Fisheries: Applications, experiences and*

- lessons in Central and South America*. Fisheries and Aquaculture Technical Paper 591. Rome, Italy: Food and Agriculture Organization of the United Nations.
- 2010 Almeida, O., K. Lorenzen, D.G. McGrath, and S. Rivero. (2010). Impacts of the Co-management of Subsistence Fishing on Amazon Fisheries. In M. Pinedo Vasquez, M. Ruffino, C. Padoch and E. Brondizzio (Eds.), *The Amazonian Várzea: the decade past and the decade ahead* (pp. 107-117). New York, New York: Springer.
- 2010 McGrath, D., S.P. da Gama, A. Cardoso, O. Almeida and J.H. Benatti. (2010). Integrating Co-Management and Land tenure Policies for the Sustainable Management of the Lower Amazon Floodplain. In M. Pinedo Vasquez, M. Ruffino, C. Padoch and E. Brondizzio (Eds.), *The Amazonian Várzea: the decade past and the decade ahead* (pp. 119-135). New York, New York: Springer.
- 2008 McGrath, D. G., A. Cardoso and O. T. Almeida. (2008). Evolución de un sistema de co-manejo de pesquerías en la llanura inundable de la baja Amazonia. In D. Pinedo and C. Soria (Eds.), *El Manejo de las Pesquerías en Ríos Tropicales de Sudamérica El Manejo de las Pesquerías en Ríos Tropicales de Sudamérica* (pp. 357-382). Lima, Peru: Instituto del Bien Común and IDRC.
- 2008 Almeida, O.T., D. McGrath, S. Rivero and K. Lorenzen. (2008). Impacto del co-manejo pesquero sobre la pesca en la Amazonia brasileña: caracterización, análisis multiagentes e interacciones. In D. Pinedo and C. Soria (Eds.), *El Manejo de las Pesquerías en Ríos Tropicales de Sudamérica El Manejo de las Pesquerías en Ríos Tropicales de Sudamérica* (pp. 323-333). Lima, Peru: Instituto del Bien Común and IDRC.
- 2006 Almeida, O., K. Lorenzen, D. McGrath, and L. Amaral. (2006). O setor pesqueiro na economia regional. In O. Almeida (Org.), *Manejo de pesca na Amazônia brasileira* (pp. 25-36). São Paulo, Brazil: Peirópolis.
- 2006 Almeida, O., K. Lorenzen, and D. McGrath. (2006). A frota comercial pesqueira na Amazônia e o co-manejo no Baixo Amazonas. In O. Almeida (Org.), *Manejo de pesca na Amazônia brasileira* (pp. 37-50). São Paulo, Brazil: Peirópolis.
- 2006 Almeida, O., K. Lorenzen, and D. McGrath. (2006). Pescadores rurais de pequena escala e o co-manejo no Baixo Amazonas. In O. Almeida (Org.), *Manejo de pesca na Amazônia brasileira* (pp. 51-72). São Paulo, Brazil: Peirópolis.
- 2005 McGrath, D., C. Peters, and A.J.M. Bentes. (2005). Manejo florestal comunitário para a produção de moveis em pequena escala na amazônia brasileira. In D. Zarin, J. Alavalapati, F. Putz, and E.M. Schmink (Org.), *As Florestas Produtivas Nos Neotrópicos: Conservação Por Meio Do Manejo Sustentável?* (pp. 261-284). Brasília, D.F.: IEB.
- 2005 McGrath, D. and S.P. da Gama. (2005). Estudo de Áreas Comunitárias na Várzea Amazônica nos Municípios de Santarém-PA, Silves-AM e Tefê-AM. In J.H. Benatti (Coord.), *A Questão Fundiária e o Manejo dos Recursos Naturais da Várzea: Análise para Elaboração de Novos Modelos Jurídicos*. Manaus, Brazil: Provárzea-Ibama.
- 2004 McGrath, D.G., C.M. Peters, and A.J.M. Bentes. (2004). Community forestry for small-scale furniture production in the Brazilian Amazon. In D. Zarin, J.R.R. Alavalapati, F.E. Putz, and M. Schmink (Org.), *Working forests in the Neotropics: Conservation Through Sustainable Management?* (pp. 200-220). New York, NY: Columbia University Press.
- 2004 McGrath, D.G., A. Cardoso, and E.P. Sá. (2004). Community Fisheries and Co-Management on the Lower Amazon Floodplain. In R. Welcome and T. Petr (Eds.),

- Proceedings of the Second International Symposium on the Management of Large Rivers for Fisheries* Vol. II (pp. 207-222). Bangkok, Thailand: FAO and Mekong River Commission.
- 2004 McGrath, D.G. (2004). Regatão and Caboclo: itinerant traders and smallholder resistance in the Brazilian Amazon. In S. Nugent and M. Harris (Org.), *Some Other Amazonians: Perspectives on Modern Amazonia* (pp. 178-192). London, England: Institute for the Study of the Americas.
- 2003 Pinedo Vasquez, M., D.G. McGrath, and T. Ximenes. (2003). Brazil (Amazonia). In H. Brookfield, H. Parsons and M. Brookfield (Org.), *Agrodiversity: Learning From Farmers Across the World* (pp. 43-78). New York, NY: United Nations University Press.
- 2002 Castro, F. De, D. McGrath, E. Crossa, and M. Adaptándose. (2002). A Los Cambios: La Habilidad De Las Comunidades Ribereñas En El Manejo De Sistemas De Lagos De La Amazonia Brasileña. In R.C. Smith and D. Pinedo (Eds.), *El cuidado de los bienes comunes: gobierno y manejo de los lagos y bosques en la Amazonía* (pp. 272-302). Lima, Peru: Instituto del Bien Común & Instituto de Estudios Peruanos.
- 2002 Pinedo-Vasquez, M., C. Padoch, D. McGrath, and T. Ximenes-Ponte. (2002). Biodiversity as a product of smallholder response to change in Amazônia. In H. Brookfield et al. (Eds.), *Cultivating Biodiversity: Understanding, Analysing and Using Agricultural Diversity* (pp. 167-178). London, England: ITDG Press.
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- 2000 McGrath, D.G. (200). Avoiding a tragedy of the commons: recent development in the management of Amazonian fisheries. In A. Hall (Ed.), *Amazonia at the Crossroads* (pp. 171-197). London, England: Institute of Latin American Studies, University of London.
- 2000 Castro, F. de and D. McGrath. (2000). From sector to system: towards a multidimensional management in the lower amazon floodplain. In I.G. Cowx (Ed.), *Management and Ecology of River Fisheries* (pp. 388-399). Oxford, England: Blackwell Science.
- 1999 McGrath, D.G., F. de Castro, E. Câmara, and C. Fudemma. (1999). Community Management of Floodplain Lakes and their Role in the Sustainable Development of Amazonian Fisheries. In C. Padoch, A. Henderson and M. Pinedo (Eds.), *Várzea: Diversity, Development and Conservation of the Amazon Floodplain. Advances in Economic Botany* Vol. 13 (pp. 59-82). New York, NY: New York Botanical Garden Press. Portuguese version *Cadernos do NAEA*.
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- 1998 Ruffino, M., V. Isaac, and D. McGrath. (1998). Gestão de recursos pesqueiros no médio Amazonas: um novo paradigma. In L. Furtado (Ed.), *Seminário a Presença do Galvão na Antropologia Brasileira*. Boletim do Museu Emílio Goeldi, Série Antropologia.

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- 1997 Barthem, R., M. Petrere, V. Isaac, M. Ribeiro, D. McGrath, I. Vieira, and M. Valderramar. (1997). A pesca na amazônia: problemas e perspectivas para o seu manejo. In C. Valladares-Padua, R. Bodmer, and L. Cullen Jr. (Eds), *Manejo e Conservação da Vida Silvestre no Brasil* (pp. 173-185). Brasília, D.F.: Cnpq.
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**Other published articles: (10)**

- 2015 Nepstad, D., D. Tepper, D. McGrath, R. Seroa da Motta, R. Edwards, B. Swette, J. Shimada. San Francisco: Policy Brief: Research and Financial Innovations in Support of Brazil's INDC Process. Earth Innovation Institute.
- 2013 Mitraud, S. and D. McGrath. 2014. Varzea Project: 20 years building a co-management system of natural resources in the Lower Amazon. Brasília, D.F.: World Wildlife Fund-Brazil. 16p.
- 2006 McGrath, D., M. Crossa, A. Cardoso and S. da Gama. 2006. Desenvolvimento de Sistemas de Manejo Comunitário para a Várzea Amazônica: Lições Que Estamos Aprendendo. Brasília, D.F.: World Wildlife Fund-Brazil.
- 2005 Almeida, O. and D. McGrath. Brazil: Varzea Project. Summary of "Varzea Project Socio Economic Assessment". 2005. In K. Schuyt, *Freshwater and Poverty Reduction: Serving People, Saving Nature* (pp. 24-30). Switzerland: WWF International, WWF Living Waters Program. (one of four projects highlighted in this publication).
- 2005 McGrath, D.G., O.T. Almeida, M. Crossa, A. Cardoso, and M. Cunha. 2005. Working towards community-based ecosystems management of the lower Amazon floodplain. *PLEC News and Views New Series* 6: 3-10.
- 2004 Alencar, A., D. Nepstad, D.G. McGrath, S.P. Gama, M.D.C. Diaz, and R. Costa. 2004. Cuiabá-santarém: exploração desordenada ou oportunidade de governança? *Proposta*, 99(1): 60-65.
- 2004 Alencar, A., D. Nepstad, D. McGrath, P. Moutinho, P. Pacheco, M. del C. Diaz, and B. Soares Filho. 2004. *Desmatamento na Amazônia: Indo Além de uma Emergência Crônica*. Belém, PA: IPAM.
- 2001 Machado, S., F. Pimentel, S. Luciano, and D. McGrath. 2001. *Fazendo Educação Ambiental: O Mundo da Várzea*. Santarém, PA: IPAM & SEMED.
- 2000 WinklerPrins, A. and D. McGrath. 2000. Smallholder Agriculture Along the Lower Amazon Floodplain, Brazil. *PLEC News and Views* 16: 34-42.

- 1998 McGrath, D. and M. Crossa. 1998. Restoration of floodplain lake habitat: a PLEC demonstration project. *PLEC News and Views* 11:10-17.
- 1997 McGrath, D., U. Silva, and N.M.M. Crossa. Itaquí: A traditional lake fishery of the lower Amazon Várzea. *PLEC News and Views* 8: 23-32.

#### **Newspaper articles & Interviews: (5)**

- 2013 Nepstad, D., D. McGrath, J. Shimada, and C. Stickler. (2013, November 17). Why is Amazon deforestation climbing? *Mongabay*. Retrieved from <http://news.mongabay.com/2013/1116-nepstad-why-is-deforestation-climbing.html>
- 2013 McGrath, D. (2013). New land-use model eyed for Brazil's Amazon settlers. *EcoAméricas* 15(6): 12.
- 2003 Coutinho, L. (2003, November 12). A Amazônia será ocupada. Interview with David McGrath. Páginas Amarelas, Veja, Rio de Janeiro, Brazil: 11-15. Retrieved from <http://veja.abril.com.br/121103/entrevista.html>
- 2000 McGrath, D., D. Nepstad and A. Alencar. (2000, October 29). A Cuiabá- Santarém (BR-163): Bomba ecológica ou caminho da prosperidade? *Gazeta de Santarém* 9(566): 8-9.
- 1999 McGrath, D. (1999, April 4). Capital do Baixo Amazonas ou Pérola do Tapajós: é preciso escolher? *Gazeta de Santarém*: 1-2.

#### **Major Unpublished Reports: (4)**

- 2014 McGrath, D., J. Guimarães, M. Chiacchio, M. DiGiano, M. McGrath-Horn and C. Chan. (2004). Baseline Study of Contract Farming in Soy, Oil Palm, Beef and Sugar Cane Supply Chains in Brazil, Colombia and Ecuador. Report to SHARP/PROFOREST. San Francisco, CA: Earth Innovation Institute. 31p.
- 2012 McGrath, D.G. (2012, December). Case analyses on experiences of formalization of informal sectors: Development of a formal co-management system for floodplain fisheries in the Lower Amazon Region of Brazil. Report. Bogor, Indonesia: CIFOR. 71p.
- 2010 McGrath, D., A. Alencar, and R. Costa. (2010, May). O Planejamento Participativo da BR-163: Um Estudo de Caso da Implantação de Grandes Projetos de Infraestrutura Rodoviária na Panamazônia. Discussion paper Seminar: Obras de infra-estrutura na Amazônia: Cenários e desafios para a governança socioambiental. Brasília, Brazil: BIC & Amigos da Terra. 44p.
- 2008 McGrath, D., O. Almeida, N. Vogt, and A. Portilho. (2008). Diagnóstico, tendências, potencial, estrutura institucional e políticas públicas para o desenvolvimento sustentável da pesca e aquicultura. Report presented to the Secretary of Fisheries and Aquaculture. Brazil: State of Pará. 111p.