



WHRC Literature Related to REDD

2009:

Almeida, A.S.d., T.A. Stone, I.C.G. Vieira, and E.A. Davidson. 2009. Non-frontier deforestation in the eastern Amazon. *Earth Interactions*, in press.

Baccini, A., Laporte, N., Goetz, S., Sun, M., Walker, W., Kellndorfer, J., Houghton, R. 2009. Pantropical Forest Carbon Mapped with Satellite and Field Observations. www.whrc.org/cop15.

Busch, J., B. Strassburg, A. Cattaneo, R. Lubowski, A. Bruner, D. Rice, A. Creed, R. Ashton, and F. Boltz. 2009. Comparing climate and cost impacts of reference levels for reducing emissions from deforestation. *Environmental Research Letters*, 4 : 044006.

Canadell, J.G., M.R. Raupach, and R.A. Houghton. 2009. Anthropogenic CO₂ emissions in Africa. *Biogeosciences* 6:463-468.

Cattaneo, A. 2009. Research Results on International Equity in REDD Mechanisms. www.whrc.org/cop15.

Cattaneo, A. 2009. A "StockFlow with Targets" Mechanism for Distributing Incentive Payments to Reduce Emissions from Deforestation. www.whrc.org/cop15.

Cattaneo, A. 2009. Stock-Flow: Balancing Effectiveness, Efficiency and Country Participation in a REDD Mechanism. www.whrc.org/cop15.

Clark, C.J., J.R. Poulsen, R. Malonga, and P.W. Elkan Jr. 2009. Logging Concessions Can Extend the Conservation Estate for Central African Tropical Forests. *Conservation Biology* 23:1281-1293. doi:10.1111/j.1523-1739.2009.01243.x.

Coe, M.T., M.H. Costa, and B.S. Soares-Filho. 2009. The Influence of historical and potential future deforestation on the stream flow of the Amazon River -- Land surface processes and atmospheric feedbacks. *Journal of Hydrology* 369.

Coe, M., Stickler, C., Lefebvre, P. 2009. Ecological co-benefits: Pan-Amazon Deforestation, Regional Climate, and Water Resources. www.whrc.org/cop15.

Goetz, S.J., A. A. Baccini, N.T. Laporte, T. Johns, W. Walker, J. Kellndorfer, R.A. Houghton, and M. Sun. 2009. Mapping and monitoring carbon stocks with satellite observations: a comparison of methods. *Carbon Balance and Management* 4:2 doi:10.1186/1750-0680-4-2.

Houghton, R.A. 2009. Emissions of carbon from land management. Background note for Development and Climate Change. World Development Report 2010. The World Bank, Washington, DC.

Houghton, R.A., F. Hall, and S.J. Goetz. 2009. Importance of biomass in the global carbon cycle. *Journal of Geophysical Research* 114, G00E03, doi:10.1029/2009JG000935.

Laporte, N., J. Stabach, and V. Palmeri Ambougou. 2009. An interactive Atlas of CO₂ emissions from Deforestation and Degradation in the Democratic Republic of Congo. <http://atlas.whrc.org/DRCEmissions/>

Le Quéré, C., M.R. Raupach, J.G. Canadell, G. Marland, L. Bopp, P. Ciais, T.J. Conway, S.C. Doney, R.A. Feely, P. Foster, P. Friedlingstein, K. Gurney, R.A. Houghton, J.I. House, C. Huntingford, P.E. Levy, M.R. Lomas, J. Majkut, N. Metzler, J.P. Ometto, G.P. Peters, I.C. Prentice, J.T. Randerson, S.W. Running, J.L. Sarmiento, U. Schuster, S. Sitch, T. Takahashi, N. Viovy, G.R. van der Werf, and F.I. Woodward. 2009. Trends in the sources and sinks of carbon dioxide. *Nature Geoscience*. doi:10.1038/ngeo689

Merry, F., B.S. Soares-Filho, D. Nepstad, G. Amacher, and H. Rodrigues. 2009. Balancing Conservation and Economic Sustainability: The Future of the Amazon Timber Industry. *Environmental Management* DOI 10.1007/s00267-009-9337-1.

Menton, M., F. Merry, A. Lawrence, and N. Brown. 2009. Company-community logging contracts in Amazonian settlements: impacts on livelihoods and NTFP harvests. *Ecology and Society* 14:182-199.

Moutinho, P., M. Cenamo, and P. Moreira. 2009. Reducing Carbon Emission by Slowing Deforestation: Initiatives in Brazil. In, *Deforestation: Prospects for Mitigating Climate Change*. Charles Palmer (ed). Routledge Explorations in Environmental Economics Series (series editor: Nick Hanley).

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. 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* 326:1350-1351.

Poulsen, J.R., C.J. Clark, G. Mavah, and P.W. Elkan. 2009. Bushmeat supply and consumption in a tropical logging concession in northern Congo. *Conservation Biology* 23:1597-1608.

Stickler, C.M., D.C. Nepstad, M.T. Coe, D.G. McGrath, H.O. Rodrigues, W.S. Walker, B.S. Soares-Filho, and E.A. Davidson. 2009. The potential ecological costs and cobenefits of REDD: a critical review and case study from the Amazon region. *Global Change Biology* 15:2803–2824

Teixeira, A.M.G., B.S. Soares-Filho, S.R. Freitas, and J.P. Metzger. 2009. Modeling landscape dynamics in an Atlantic Rainforest region: Implications for conservation. *Forest Ecology and Management* 257:1219-1230.

2008:

Baccini, A., N. Laporte, S.J. Goetz, M. Sun, and H. Dong. 2008. A first map of tropical Africa's above-ground biomass derived from satellite imagery. *Environmental Research Letters* (3)045011 doi: 10.1088/1748-9326/3/4/045011

Balch, J.K., D.C. Nepstad, P.M. Brando, L.C. Curran, O. Portela, O. de Carvalho Jr., and P. Lefebvre. 2008. Negative fire feedback in a transitional forest of Southeastern Amazonia. *Global Change Biology* 14(10):2276-2287.

- Bowman, M.S., G.S. Amacher, and F.D. Merry. 2008. Fire use and prevention by traditional households in the Brazilian Amazon. *Ecological Economics* March..
- Brando, P.M., D.C. Nepstad, E.A. Davidson, S.E. Trumbore, D. Ray, P. Camargo. 2008. Drought effects on litterfall, wood production, and belowground carbon cycling in an Amazon forest: results of a throughfall reduction experiment. *Philosophical Transactions of the Royal Society B* 363:1839-1848.
- Cattaneo, A. 2008. Regional Comparative Advantage, Location of Agriculture, and Deforestation in Brazil. *Journal of Sustainable Forestry* 27(1-2):25-42.
- Davidson, E.A., D.C. Nepstad, F.Y. Ishida, and P.M. Bando. 2008. Effects of an experimental drought and recovery on soil emissions of carbon dioxide, methane, nitrous oxide, and nitric oxide in a moist tropical forest. *Global Change Biology* 14: 2582–2590.
- Davidson, E.A., T.D.D. Sá, C.J.R. Carvalho, R.D. Figueiredo, M.D.A. Kato, O.R. Kato, and F.Y. Ishida. 2008. An integrated greenhouse gas assessment of an alternative to slash-and-burn agriculture in eastern Amazonia. *Global Change Biology* 14:998-1007.
- DeFries, R.S., D.C. Morton, G.R. van der Werf, L. Giglio, G.J. Collatz, J.T.. Randerson, R.A. Houghton, P.K. Kasibhatla, and Y. Shimabukuro. 2008. Fire-related carbon emissions from land use transitions in southern Amazonia. *Geophysical Research Letters* 35. L22705, doi:10.1029/2008GL035689.
- Goetz, S., J. Kellndorfer, and T. Johns. 2008. Getting over the satellite blues. *Trading Carbon* December.
- Goetz, S., A. Baccini, N. Laporte, T. Johns, W. Walker, J. Kellndorfer, and R.A. Houghton. 2008. Mapping and monitoring carbon stocks with satellite observations: an update. A Report for the United Nations Framework Convention on Climate Change (UNFCCC), Conference of the Parties (COP), Fourteenth Session, 1-12 December 2008, Poznan, Poland. Woods Hole Research Center, Falmouth, MA. November.
- Hajkowicz, S., K. Collins, and A. Cattaneo. 2008. Review of Agri-Environment Indexes and Stewardship Payments. *Environmental Management* July.
- Holdren, J.P. 2008. The Future of Climate Change Policy: The U.S.'s Last Chance to Lead. *Scientific American* 2008 Earth 3.0 Supplement 13 October:20-21.
- Holmes, R.M., J.W. McClelland, P.A. Raymond, B.B. Frazer, B.J. Peterson, and M. Stieglitz. 2008. Lability of DOC transported by Alaskan rivers to the Arctic Ocean. *Geophysical Research Letters* 35. doi:10.10289/2007GL032837.
- Houghton, R.A. 2008. Biomass. In *Encyclopedia of Ecology*, 1st Edition, ed. S.E. Jorgensen and B.D. Fath, 448-453. Elsevier, Oxford.
- Houghton, R.A. 2008. Sinks, sinks, and more sinks. *Ecology* 89(1):292-293.
- Houghton, R.A. 2008. Carbon flux to the atmosphere from land-use changes. In *TRENDS: A Compendium of Data on Global Change*. Carbon Dioxide Information Analysis Center, Oak Ridge National Laboratory, U.S. Department of Energy, Oak Ridge, TN.
- Houghton, R.A., and S.J. Goetz. 2008. New satellites help quantify carbon sources and sinks. *Eos* 89(43)417-432.

- Ito, A., J.E. Penner, M.J. Prather, C.P. de Campos, R.A. Houghton, T. Kato, A.K. Jain, X. Yang, G.C. Hurtt, S. Frolking, M.G. Fearon, L.P. Chini, A. Wang, and D.T. Price. 2008. Can we reconcile differences in estimates of carbon fluxes from land-use change and forestry for the 1990s? *Atmospheric Chemistry & Physics* 8:3291-3310.
- Johns, T., F. Merry, C. Stickler, D. Nepstad, N. Laporte, and S. Goetz. 2008. A three-fund approach to incorporating government, public and private forest stewards into a REDD funding mechanism. *International Forestry Review* 10(3):458-464.
- Khosla, V.; T.D. Searchinger, and R.A. Houghton. 2008. Biofuels: Clarifying Assumptions. *Letters. Science* 322: 371-374.
- Laporte, N., F. Merry, A. Baccini, S. Goetz, R. Houghton, J. Stabach, and M. Bowman. 2008. Réduire les émissions de CO₂ liées au Déboisement et de la Dégradation dans la République Démocratique du Congo: Une étude exploratoire. http://www.whrc.org/policy/BaliReports/assets/Africa_Bali_Booklet-FR.pdf
- Laporte, N., W. Walker, J. Stabach, and F. Landsberg. 2008. Monitoring forest-savanna dynamics in Kibale National Park with satellite imagery (1989-2003): implications for the management of wildlife habitat. In *Science and Conservation in African Forests: The Benefits of Long-Term Research*, ed. R. Wrangham and E. Ross, 38-50. Cambridge University Press, Cambridge, UK.
- Marengo, J.A., C.A. Nobre, J. Tomasella, M.D. Oyama, G.S. Oliveira, R. Oliveira, H. Camargo, L.M. Alves, and I.F. Brown. 2008. The Drought of Amazonia in 2005. *Journal of Climate* 21(3):495-516.
- 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* 53:2455-2464.
- 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 *El Manejo de las Pesquerías en Ríos Tropicales de Sudamérica El Manejo de las Pesquerías en Ríos Tropicales de Sudamérica*, ed. D. Pinedo and C. Soria, 357-382. Instituto del Bien Común and IDRC, Lima, Peru.
- Merry, F., B. Soares-Filho, D. Nepstad, G. Amacher, and H. Rodrigues. Balancing conservation and economic stability: the future of the Amazon timber industry. *Environmental Management* DOI 10.1007/s00267-009-9337-1 DOI 10.1007/s00267-009-9337-1
- Nepstad, D.C., and C.M. Stickler. 2008. Managing the tropical agriculture revolution. *Journal of Sustainable Forestry* 27(1-2), 43-56.
- Nepstad, D.C., C.M. Stickler, B. Soares-Filho, and F. Merry. 2008. Interactions among Amazon land use, forests and climate: prospects for a near-term forest tipping point. *Philosophical Transactions of the Royal Society B*. doi:10.1098/rstb.2007.0036
- Searchinger, T., R. Heimlich, R.A. Houghton, F. Dong, A. Elobeid, J. Fabiosa, S. Tokgoz, D. Hayes, and T-H. Yu. 2008. Use of U.S. Croplands for Biofuels Increases Greenhouse Gases Through Emissions from Land Use Change. *Science Express Reports* 7 February. DOI: 10.1126/science.1151861.

Soares Filho, B.S., L. Dietzsch, P. Moutinho, A. Falieri, H. Rodrigues, E. Pinto, C.C. Maretti, K. Suassuna, C.A.deM. Scaramuzza, M. Lanna, and F.V. de Araújo. 2008. Reducing carbon emissions from deforestation: the role of ARPA's protected Areas in the Brazilian Amazon. IPAM, Belém, Brazil.

Stickler, C.M., Kellndorfer, J.M., Walker, W.S., Soares-Filho, B.S., Rodrigues, H.O., Dietzsch, L. 2008. Forest carbon monitoring and landscape modeling in support of REDD: The Xingu River headwaters of the SE Amazon. Presented at the United Nations Framework Convention on Climate Change (UNFCCC) Conference of the Parties (COP), 14th Session, 1-12 December, 2008, Poznan, Poland.

Stickler, C.M., D.C. Nepstad, B.S. Soares-Filho, H.O. Rodrigues, F. Merry, M.S. Bowman, W.S. Walker, J.M. Kellndorfer, O.T. Almeida. The opportunity costs of reducing carbon emissions in an Amazonian agroindustrial region: the Xingu River headwaters. A paper prepared for and presented at the 2008 Berlin Conference on the Human Dimensions of Global Environmental Change, February 22-23, 2008, Berlin, Germany (http://web.fu-berlin.de/ffu/akumwelt/bc2008/papers/bc2008_218_Stickler-EtAl.pdf).

Stickler, C.M., Nepstad, D.C., Almeida, O.T., Merry, F., Soares-Filho, B.S., Dietzsch, L., Rodrigues, H.O., Bowman, M.S., and Walker, W.S. 2008. Compensating rural property owners for compliance with the Forest Code in the Brazilian Amazon: the case of the Xingu River headwaters region. *Boletim da Sociedade Brasileira de Economia Ecológica* 18, 18-22.

Stickler, C.M., and O.T. Almeida. 2008. Aproveitar o financiamento internacional para controlar a explosão agro-industrial na Amazônia? O estudo de caso do financiamento da Corporação Financeira Internacional para o Grupo Maggi. *Cadernos NAEA* 11(1), 51-84.

Stickler, C.M., and O.T. Almeida. 2008. Harnessing international finance to manage the Amazon agro-industrial explosion? The case of International Finance Corporation loans to Grupo Maggi. *Journal of Sustainable Forestry* 27(1-2): 57-86.

Tatem, A.J., S.J. Goetz, and S.I. Hay. 2008. Fifty years of Earth-observation satellites. *American Scientist* 96:390-398.

WHRC. 2009. Making REDD a Success: Readiness and Beyond. A report from The Woods Hole Research Center, www.whrc.org/cop15.

Johns, T., E. Johnson, and N. Greenglass. 2009. An Overview of Readiness for REDD; A compilation of readiness activities prepared on behalf of the Forum on Readiness for REDD, Version 2. A report from The Woods Hole Research Center, www.whrc.org/cop15.

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