

DANIEL C. NEPSTAD

Education:

Ph.D. in Forest Ecology	1983 - 1989	Yale University
M.S. in Plant Ecology/Botany	1980 - 1983	Michigan State University
B.A. in Biology	1975 - 1979	Kalamazoo College

Professional History Since 2000:

Earth Innovation Institute (formerly IPAM International Program). Director and President. 2010 – present.

Woods Hole Research Center. Visiting Distinguished Scientist. 2010 – present.

Woods Hole Research Center. Senior Scientist. 1999 – 2008, 2009 – 2010.

Gordon and Betty Moore Foundation. Chief Program Officer, Environmental Conservation Program. July 2008 – July 2009.

Yale University, School of Forestry & Environmental Studies. Lecturer. 2000 – 2005.

Universidade Federal do Pará, Belém, Núcleo de Altos Estudos Amazônicos. Visiting Professor. 1995 – 2006.

Institutional Leadership and Awards

Solidaridad Farmer Support Program. 2013 – present

Forest Trends, Board of Directors. 2010 – present.

Acre State Government, REDD Program. Appointed to Science and Technical Advisory Committee. 2010 – present.

California Air and Resources Board. Appointed to REDD Offset Working Group. Designing REDD architecture linking CA AB32 (cap-and-trade) with Acre and Chiapas REDD programs. Jan 2011 – 2013.

Intergovernmental Panel on Climate Change (IPCC) AR5. Lead Author. Working Group 2, Chapter 4 (Terrestrial and Inland Water Systems). November 2010 – July 2014.

IPAM, Belém, Brazil. Founding President and Board Member. 1995 – 2014.

World Bank. External Advisory Group, Forests. 2010 – 2014.

Responsible Soy Roundtable (RTRS). Founding Board Member, 2006 – 2007,

Responsible Soy Roundtable (RTRS). Criteria development group (2007 – 2008)

Aliança da Terra (Land Alliance), Co-Founder (conservation NGO comprised of cattle ranchers and soy farmers) 2004, Advisor (2004 – present)

Pew Scholar Award in Conservation and Environment. 1994 – 1997.

Selected Publications (total of 141 articles, reports and books)

Nepstad, D. C., D. G. 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. Hansen, M. McGrath-Horn, O. Carvalho, and L. L. Hess. 2014. Slowing Amazon deforestation through public policy and interventions in beef and soy supply chains. *Science* 344:1118-1123.

Brando, P. M., J. K. Balch, D. C. Nepstad, D. C. Morton, F. E. Putz, M. T. Coe, D. Silverio, M. N. Macedo, E. A. Davidson, C. C. Nobrega, A. Alencar, and B. S. Soares-Filho. 2014. Abrupt increases in Amazonian tree mortality due to drought-fire interactions. *Proceedings of the National Academy of Sciences of the United States of America* 111:6347-6352.

- Nepstad, D. C., S. Irawan, T. Bezerra, W. Boyd, C. Stickler, J. Shimada, A. Alencar, A. Azevedo, D. Tepper, and S. Lowery. 2013. More food, more forests, fewer emissions, better livelihoods: linking REDD+, sustainable supply chains and domestic policy in Brazil, Indonesia and Colombia. ***Carbon Management*** 4.
- Silverio, D. V., P. M. Brando, J. K. Balch, F. E. Putz, D. C. Nepstad, C. Oliveira-Santos, and M. M. C. Bustamante. 2013. Testing the Amazon savannization hypothesis: fire effects on invasion of a neotropical forest by native cerrado and exotic pasture grasses. ***Philosophical Transactions of the Royal Society B-Biological Sciences*** 368.
- 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. ***Philosophical Transactions of the Royal Society B-Biological Sciences*** 368.
- Nepstad, D. C., W. Boyd, C. M. Stickler, T. Bezerra, and A. Azevedo. 2013. Responding to climate change and the global land crisis: REDD+, market transformation, and low emissions rural development. ***Philosophical Transactions of the Royal Society***.
- Nepstad, D. C., D. G. McGrath, and B. Soares. 2012. Systemic Conservation, REDD, and the Future of the Amazon Basin. ***Conservation Biology*** 25:1113-1116.
- Nepstad, D. C., W. Boyd, A. Azevedo, T. Bezerra, B. Smid, R. M. Vidal, and K. Schwalbe. 2012. *Overview of State-based Programs to Reduce Emissions from Deforestation and Degradation (REDD) as part of the Governors' Climate and Forest Task Force*. EPRI, Palo Alto, CA.
- Soares-Filho, B., R. Silvestrini, D. Nepstad, P. Brando, H. Rodrigues, A. Alencar, M. Coe, C. Locks, L. Lima, L. Hissa, and C. Stickler. 2012. Forest fragmentation, climate change and understory fire regimes on the Amazonian landscapes of the Xingu headwaters. ***Landscape Ecology*** 27:585-598.
- Balch, J. K., D. C. Nepstad, L. M. Curran, P. M. Brando, O. Portela, P. Guilherme, J. D. Reuning-Scherer, and O. de Carvalho Jr. 2011. Size, species, and fire behavior predict tree and liana mortality from experimental burns in the Brazilian Amazon. ***Forest Ecology and Management***, 261:68-77.
- Brando, P. M., S. J. Goetz, A. Baccini, D. C. Nepstad, P. S. A. Beck, and M. C. Christman. 2011. Seasonal and interannual variability of climate and vegetation indices across the Amazon. ***Proceedings of the National Academy of Sciences of the United States of America*** 107:14685-14690.
- Lewis, S. L., P. M. Brando, O. L. Phillips, G. M. F. van der Heijden, and D. Nepstad. 2011. The 2010 Amazon Drought. ***Science***, 331:554-554.
- Nepstad, D. C. 2011. Recognizing and Managing the Tropical Agricultural Revolution in Latin America and the Caribbean, *Technical Notes*, pp. 16. Inter-American Development Bank.
- Nepstad, D. C., D. G. McGrath, and B. Soares-Filho. 2011. Systemic Conservation, REDD, and the Future of the Amazon Basin. ***Conservation Biology*** 25:1113-1116.
- Silvestrini, R., B. Soares-Filho, D. Nepstad, M. Coe, H. Rodrigues, and R. Assuncao. 2011. Simulating fire regimes in the Amazon in response to climate change and deforestation. ***Ecological Applications*** 21:1573-1590.
- Soares-Filho, B. S., P. Moutinho, D. Nepstad, et al. 2010. Role of Brazilian Amazon protected areas in climate mitigation. ***Proceedings of the National Academy of Science***, www.pnas.org/cgi/doi/10.1073/pnas.0913048107
- Balch, J., D. Nepstad, P. Brando, A. Alencar. 2010. Comment on "The Incidence of Amazon Fire with Implications for REDD". ***Science*** 330:1627.

- Merry, F., B. Soares-Filho, D. Nepstad, G. Amacher, and H. Rodrigues. 2009. Balancing conservation and economic stability: the future of the Amazon timber industry. ***Environmental Management*** DOI 10.1007/s00267-009-9337-1
- Brando, P., D. Nepstad, E. Davidson, D. Ray, S. Trumbore, P. Camargo, P. Moutinho. 2008. Drought effects on litterfall, stemwood 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.
- Nepstad, D., B. Soares-Filho, F. Merry, A. Lima, P. Moutinho, J. Carter, M. Bowman, A. Cattaneo, H. Rodrigues, S. Schwartzman, D. McGrath, C. Stickler, et al.. 2009. The end of deforestation in the Brazilian Amazon. ***Science*** 326: 1350-1351.
- 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
- Balch, J., D. Nepstad, P. M. Brando, L. M. Curran, O. Portela, O. Carvalho, Jr., P. Lefebvre. 2008. Negative fire feedback in a transitional forest of southeastern Amazonia. ***Global Change Biology*** 14, 1–12, doi: 10.1111/j.1365-2486.2008.01655.x
- 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
- Nepstad, D., C. Stickler. 2008. Managing the tropical agriculture revolution. ***Journal of Sustainable Forestry*** 27 (1-2): 43-56.
- Nepstad, D. C., O. Carvalho, Jr., J. Carter, A. Moita, V. Neu, G. Cardinot. *Manejo e recuperação de mata ciliar nas regiões florestais da Amazônia*. 2007. (Management and recuperation of riparian zone forests of Amazon forest regions). Instituto de Pesquisa Ambiental da Amazonia, Belém, Brazil. 68 pages
- Gullison, R. E., P.C. Frumhoff, J. G. Canadell, C. B. Fields, D. C. Nepstad, et al. 2007. Tropical forests and climate policy. ***Science*** (Policy Forum) Pages 1-3/10.1126/science1136163
- Lima, E., F. Merry, D. Nepstad, G. Amacher, C. Azevedo-Ramos, P. Lefebvre, F. Resque Jr. 2006. Searching for sustainability: forest policies, smallholders, and the Trans-Amazon highway. ***Environment*** 48(1): 26-38.
- Nepstad, D., S. Schwartzman, B. Bamberger, M. Santilli, P. Schlesinger, P. Lefebvre, A. Alencar, D. Ray, E. Prinz, A. Rolla. 2006. Inhibition of Amazon deforestation and fire by parks and indigenous reserves. ***Conservation Biology*** Vol. 20(1): 65-73.
- Nepstad, D., C. Stickler, O. Almeida. 2006. Globalization of the Amazon beef and soy industries: opportunities for conservation. ***Conservation Biology*** 20(6): 1595-1603.
- Soares-Filho, B., D. Nepstad, L. Curran, G. Cerqueira, R. Garcia, C. Ramos, E. Voll, A. McDonald, P. Lefebvre, P. Schlesinger. 2006. Modeling Amazon conservation. ***Nature*** 440: 520-523.
- Nepstad, D., C. Azevedo-Ramos, A.C. Barros, D. McGrath, C. Pereira, F. Merry. 2005. Managing the Amazon timber industry. ***Conservation Biology*** 18(2): 1-3.
- Santilli, M., P. Moutinho, S. Schwartzman, D. Nepstad, L. Curran, C. Nobre. 2005. Tropical deforestation and the Kyoto Protocol: an editorial essay. ***Climate Change*** 71: 267-276. (Presents "Compensated Reduction", precursor to REDD)
- Nepstad, D., D. McGrath, A. C. Barros, A. Alencar, M. Santilli, M. C. Vera. 2002. Frontier governance in Amazonia. ***Science*** 295:629-630.