

Biographical sketch

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Christopher Bower Field

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A.B. Harvard College, 1975 - Biology
 Ph.D. Stanford University, 1981 - Biology

Positions Held:

1981 - 1984 Assistant Professor, Biology, University of Utah
 1984 - 2002 Staff Scientist, Carnegie Institution of Washington
 1986 - 1989 Assistant Professor by courtesy, Stanford University
 1989 - 1996 Associate Professor by courtesy, Stanford University
 1996 - 2005 Professor by courtesy, Stanford University
 2002 - present Director, Department of Global Ecology, Carnegie Institution
 2005 - present Professor, Department of Biology, Stanford University
 2005 - present Faculty Director, Jasper Ridge Biological Preserve
 2005 - present Senior Fellow by courtesy, Freeman Spogli Institute
 for International Studies
 2008 - present Professor, Department of Environmental Earth System Science,
 Stanford University

Selected Fellowships, Awards, Service

1991-93	Ecology, editorial review board	1991-98	US National Committee for SCOPE
1991-97	SSC, IGBP-BAHC	1991-97	Chair, BAHC focus 3: Large-scale pr
1992	Testimony, US Senate Committee	1993-98	Chair, US Natl Comm SCOPE
1993-96	Ecological Applications, Ed. Board	1994-99	Global Change Biology, Senior Ed.
1997-99	NSF Ecosystem Studies Panel	1997-99	NRC Ecosystem Panel
1998-00	NRC Grand Challenges in Environmental Biology	1999-06	NRC: Board on Environmental Studies and Toxicology
1999	Testimony, US House Committee	2000	ESA Aldo Leopold Fellow
2001-	Member, National Academy of Sciences	2000-05	Chair, Advisory Comm., US Carbon Cycle Science Program
2002-	Cluster Coordinator, SCOPE	2001-	PNAS, Editorial Board
2002-07	SSC: Global Carbon Project	2004-07	CLA, IPCC, Working Group 2
2006-08	Co-chair, Stanford Environmental Venture Fund Panel	2006	Stanford Sidney and Skippy Prize for Research in the Prevention or Reduction of Global Warming
2006-	NRC Board on Intl Sci Organizations	2007	Testimony, US Senate briefing
2006-07	Chair, NEON ISEP revision comm	2007	Townsend Distinguished Lecture, University South Carolina
2007-	Chair, NEON Science, Technology, & Education Advisory Committee	2008 -	NRC committee on energy externalities
2008-	NRC comm on res opportunities at the interface of phys and biol sciences	2008-	Co-chair Intergovernmental Panel on
2008	Chair, NRC committee on ecological		

Selected Recent Publications

- Campbell, J. E., D. B. Lobell, R. C. Genova, and C. B. Field. 2008. The Global Potential of Bioenergy on Abandoned Agriculture Lands. *Environ. Sci. Technol.*: doi: 10.1021/es800052w
- Field, C. B., J. E. Campbell, and D. B. Lobell. 2008. Biomass energy: the scale of the potential resource. *Trends in Ecology & Evolution* **23**:65-72.
- Houlton, B. Z., Y.-P. Wang, P. M. Vitousek, and C. B. Field. 2008. A unifying framework for dinitrogen fixation in the terrestrial biosphere. *Nature*:doi:10.1038/nature07028.
- Field, C. B., J. Sarmiento, and B. Hales. 2007. The carbon cycle of North America in a global context. Pages 21-28 *in* A. W. King, L. Dilling, G. P. Zimmerman, D. M. Fairman, R. A. Houghton, G. Marland, A. Z. Rose, and T. J. Wilbanks, editors. *The First State of the Carbon Cycle Report (SOCCR)-Synthesis and Assessment Product 2.2, Report by the U.S. Climate Change Science Program and the Subcommittee on Global Change Research*. National Oceanic and Atmospheric Administration, National Climatic Data Center, Asheville, NC.
- Field, C. B., D. B. Lobell, H. A. Peters, and N. R. Chiariello. 2007. Feedbacks of Terrestrial Ecosystems to Climate Change. *Annual Review of Environment and Resources* **32**:doi: 10.1146/annurev.energy.1132.053006.141119.
- Field, C. B., L. D. Mortsch, M. Brklacich, D. L. Forbes, P. Kovacs, J. A. Patz, S. W. Running, and M. J. Scott. 2007. North America. Pages 617-652 *in* M. L. Parry, O. F. Canziani, J. P. Palutikof, P. J. v. d. Linden, and C. E. Hanson, editors. *Climate Change 2007: Impacts, Adaptation and Vulnerability. Contribution of Working Group II to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change*. Cambridge University Press, Cambridge.
- Canadell, J. G., C. Le Quere, M. R. Raupach, C. B. Field, E. T. Buitenhuis, P. Ciais, T. J. Conway, N. P. Gillett, R. A. Houghton, and G. Marland. 2007. Contributions to accelerating atmospheric CO₂ growth from economic activity, carbon intensity, and efficiency of natural sinks. *Proceedings of the National Academy of Sciences* **104**:18866-18870.
- Gullison, R. E., P. C. Frumhoff, J. G. Canadell, C. B. Field, D. C. Nepstad, K. Hayhoe, R. Avissar, L. M. Curran, P. Friedlingstein, C. D. Jones, and C. Nobre. 2007. Tropical forests and climate policy. *Science* **316**:985-986.
- Lobell, D. B., K. N. Cahill, and C. B. Field. 2007. Historical effects of temperature and precipitation on California crop yields. *Climatic Change* **81**:187-203.
- Lobell, D. B. and C. B. Field. 2007. Global scale climate–crop yield relationships and the impacts of recent warming. *Environmental Research Letters* **2**:doi:10.1088/1748-9326/1082/1081/014002.
- Raupach, M. R., G. Marland, P. Ciais, C. Le Quere, J. G. Canadell, G. Klepper, and C. B. Field. 2007. Global and regional drivers of accelerating CO₂ emissions. *Proceedings of the National Academy of Sciences AMERICA* **104**:10288-10293.
- Wang, Y. P., B. Z. Houlton, and C. B. Field. 2007. A model of biogeochemical cycles of carbon, nitrogen, and phosphorus including symbiotic nitrogen fixation and phosphatase production. *Global Biogeochemical Cycles* **21**:GB1018.