

**Biographical sketch****Christopher Bower Field****April 2023**

Stanford Woods Institute for the Environment

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Stanford, CA 94305

Web site <http://woods.stanford.edu> or <http://fieldlab.stanford.edu>**Education:**

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 - 2016	Director, Department of Global Ecology, Carnegie Institution
2005 - 2016	Faculty Director, Jasper Ridge Biological Preserve
2005 - 2016	Senior Fellow by courtesy, Freeman Spogli Institute for International Studies
2005 - present	Professor, Department of Biology, Stanford University
2008 - present	Professor, Department of Earth System Science, Stanford University
2008 - present	Senior Fellow, Woods Institute for the Environment, Stanford University
2009 - present	Senior Fellow, Precourt Institute for Energy, Stanford University
2012 – present	Melvin and Joan Lane Professor for Interdisciplinary Environmental Studies, Stanford University
2016 – present	Perry L. McCarty Director, Stanford Woods Institute for the Environment

**Major Boards:**

2013 – 2019	Harvard University Board of Overseers
2016 – present	WWF US Board of Directors
2018 – present	California Academy of Sciences Board of Trustees

Chris Field is the Perry L. McCarty Director of the Stanford Woods Institute for the Environment and Melvin and Joan Lane Professor for Interdisciplinary Environmental Studies. His research focuses on climate change, ranging from work on improving climate models, to prospects for renewable energy systems, to community organizations that can minimize the risk of a tragedy of the commons. Field was the founding director of the Carnegie Institution's Department of Global Ecology, a position he held from 2002 to 2016. From 2008 to 2015, he was co-chair of Working Group II of the Intergovernmental Panel on Climate Change, where he led the effort on the IPCC Special Report on "Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation" (2012) and the Working Group II contribution to the IPCC Fifth Assessment Report (2014) on Impacts, Adaptation, and Vulnerability. He is a recipient of the Japan Prize, the Heinz Award, the Max Plank Research Award, the BBVA Foundation Frontiers

of Knowledge Award, the Roger Revelle Medal, and the Stephen H. Schneider Award for Outstanding Science Communication. Field was elected to membership in the National Academy of Sciences (2001) and the American Philosophical Society (2022), as well as fellowships in the American Association for the Advancement of Science (2009), the American Academy of Arts and Sciences (2010), the Ecological Society of America (2012), the American Geophysical Union (2014), and the California Academy of Sciences (2015). Field received his PhD from Stanford in 1981.

### Recent Publications:

(Google Scholar citations: <http://scholar.google.com/citations?user=whhr40wAAAAJ&hl=en>)

2023

Hemes, K. S., C. A. Norlen, J. A. Wang, M. L. Goulden, and C. B. Field. 2023. The magnitude and pace of photosynthetic recovery after wildfire in California ecosystems. *Proceedings of the National Academy of Sciences* **120**:e2201954120.

Hill, A. P., C. J. Nolan, K. S. Hemes, T. W. Cambron, and C. B. Field. 2023. Low-elevation conifers in California's Sierra Nevada are out of equilibrium with climate. *PNAS Nexus* **2**:1-9.

Hino, M., and C. B. Field. 2023. Fire frequency and vulnerability in California. *PLOS Climate* **2**:e0000087.

2022

Luers, A., L. Yona, C. B. Field, R. B. Jackson, K. J. Mach, B. W. Cashore, C. Elliott, L. Gifford, C. Honigsberg, and L. Klaassen. 2022. Make greenhouse-gas accounting reliable—build interoperable systems. *Nature* **607**:653-656.

2021

Diffenbaugh, N. S., et al. (2021). "Atmospheric variability contributes to increasing wildfire weather but not as much as global warming." *Proceedings of the National Academy of Sciences* **118**(46).

Hemes, K. S., et al. (2021). "An Ecosystem-Scale Flux Measurement Strategy to Assess Natural Climate Solutions." *Environmental Science & Technology* **55**(6): 3494-3504.

Hill, A. P. and C. B. Field (2021). "Forest fires and climate-induced tree range shifts in the western US." *Nature communications* **12**(1): 1-10.

Johnson, J. E., C. B. Field, and J. A. Berry. 2021. The limiting factors and regulatory processes that control the environmental responses of C3, C3–C4 intermediate, and C4 photosynthesis. *Oecologia* **197**:841-866.

Nolan, C. J., et al. (2021). "Constraints and enablers for increasing carbon storage in the terrestrial biosphere." *Nature Reviews Earth & Environment* **2**: 436-446.

Tsai, Y.-L., et al. (2021). "Routing algorithms as tools for integrating social distancing with emergency evacuation." *Scientific reports* **11**(1): 1-14.