

Benjamin I. Cook

NASA Goddard Institute for Space Studies • 2880 Broadway • New York, NY • 10025

Home: (434) 409-9233 • Office (212) 678-5669 • bc9z@ldeo.columbia.edu

Research Interests

Interactions and feedbacks between the land surface, terrestrial ecosystems, and the climate system.

Education/Employment

6/07-present NOAA Global Change Postdoctoral Fellow, NASA-GISS/LDEO

1/04-5/07 Ph.D. Environmental Sciences, University of Virginia

8/01-1/04 M.S. Environmental Sciences, University of Virginia

8/97-5/01 B.S. Environmental & Forest Biology. State University of New York College of Environmental Science and Forestry (SUNY-ESF), *magna cum laude*

Awards/Fellowships

2007 NOAA Climate and Global Change Postdoctoral Fellowship

2007 Maury Environmental Sciences Prize (UVA)

2005 Moore Research Award, Department of Environmental Sciences (UVA)

2004 Exploratory Research Award, Department of Environmental Sciences (UVA)

Funded Proposals/Grants

“Historical estimates of terrestrial vegetation and carbon dynamics using millennial scale soil moisture reconstructions.” Climate Center Committee, LDEO, \$6000

Workshop Participation

2008 Alpine Summer School, Course XVI: “Interaction and Coevolution of Climate and the Biosphere”

2006 ASP Summer Colloquium-The Art of Climate Modeling, National Center for Atmospheric Research

2005 NCCR Climate Summer School, Grindelwald, Switzerland.

Publications

Cook BI, R Miller, R Seager (*in review*): “Amplification of the 'Dust Bowl' drought through human induced land degradation.”

Sacks W, **BI Cook**, N Buening, S Levis, JH Helkowski (2008): “Effects of global irrigation on the near-surface climate.” *Climate Dynamics*, doi:10.1007/s00382-008-0445-z

Hui WCJ, **BI Cook**, P D’Odorico, S Ravi, J Fuentes (2008): “Dust-rainfall feedbacks in the West African Sahel.” *Water Resources Research*, 44, doi:10.1029/2008WR006885

Cook BI, R Miller, R Seager (2008): “Dust and sea surface temperature forcing of the 1930s ‘Dust Bowl’ drought.” *Geophysical Research Letters*, 35, doi:10.1029/2007GL032509

Cook BI, GB Bonan, S Levis, HE Epstein (2008): “The thermoinsulation effect of snow cover within a climate model.” *Climate Dynamics*, doi:/10.1007/s00382-007-0341-y

Cook BI, GB Bonan, S Levis, HE Epstein (2008): “Rapid vegetation responses and

feedbacks amplify climate model response to snow cover changes." *Climate Dynamics*, doi:/10.1007/s00382-007-0296-z

Cook BI, ER Cook, P Huth, JE Thompson, A Forster, D Smiley (2007): "A cross-taxa phenological dataset from Mohonk Lake, NY and its relationship to climate." *International Journal of Climatology*, doi:/10.1002/joc.1629

Cook BI, G Bonan, and S Levis (2006): "Soil moisture feedbacks to precipitation in southern Africa." *Journal of Climate*, 19, 4198-4206

Buckley BM, **BI Cook**, A Bhattacharyya, D Dukpa, V Chaudhary (2005): "Global Surface Temperature Signals in Pine Ring-Width Chronologies From Southern Monsoon Asia." *Geophysical Research Letters*, doi:10.1029/2005GL0234745

Cook BI, TM Smith, and ME Mann (2005): "The North Atlantic Oscillation and regional phenology prediction over Europe." *Global Change Biology*, 11, 1-8, doi:10.1111/j.1365-2486.2005.00960.x

L'Heureux ML, ME Mann, **BI Cook**, BE Gleason, and RS Vose (2004): "Atmospheric Circulation Influences on Seasonal Precipitation Patterns in Alaska during the latter 20th Century." *Journal of Geophysical Research-Atmospheres*, Vol. 109, D06106, doi:10.1029/2003JDO03845

Cook BI, ME Mann, P D'Odorico, and TM Smith (2004): "Statistical simulation of the NAO on European winter surface temperatures: applications to phenological modeling." *Journal of Geophysical Research-Atmospheres*, 109, D16106, doi:10.1029/2003JD004305.

Cook, ER, JG Palmer, **BI Cook**, A Hogg, and RD D'Arrigo (2002): "A multi-millennial palaeoclimate resource from *Lagorostrobos colensoi* tree-rings at Oroko Swamp, New Zealand." *Global and Planetary Change*, 33, 209-220