

SCHOOL OF LIFE SCIENCES  
HUMAN DIMENSIONS SECTION  
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*Ann P. Kinzig*

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**Current Research** | My research focuses broadly on ecosystem services, conservation-development interactions, and the resilience of natural-resource systems. I am currently involved in three major research projects, including: (1) Advancing Conservation in a Social Context (examining the trade-offs between conservation and development goals in developing nations); (2) The resilience of pre-historic landscapes in the American Southwest; and (3) Assessments of ecosystem services, their valuation, and mechanisms for ensuring their continued delivery.

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**E**ducation | *University of California, Berkeley*  
Ph.D. in Energy and Resources, May 1994  
M.A. in Physics, Dec 1988  
*University of Illinois at Urbana-Champaign*  
B.S. in Physics, May 1986, *summa cum laude*

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**Recent Awards & Honors** | Elected Fellow of the *American Association for the Advancement of Science* 2007  
Aldo Leopold Leadership Fellow, *Ecological Society of America*, 2000  
1<sup>st</sup> Roger Revelle Fellow in Global Stewardship, *American Association for the Advancement of Science*, Sep 98 to Aug 99

*University of California, Berkeley*  
U.C. Berkeley Genevieve McEnerney Fellowship, Sep 93 to May 94  
NASA Global Change Fellow, Sep 90 to Aug 93  
National Science Foundation Fellow, Sep 86 to Aug 90  
AT&T Bell Laboratories Grant, Sep 86 to Aug 90

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**E**xperience | *Arizona State University*  
Associate Professor, School of Life Sciences, Aug 04 to present  
Assistant Professor, Department of Biology, Aug 98 to Aug 04  
  
*Office of Science and Technology Policy, Executive Office of the President of the United States*  
AAAS Roger Revelle Fellow (on leave from ASU), Aug 98 to Aug 99  
  
*Princeton University*  
Assistant Director, Princeton Environmental Institute  
& Lecturer, Dept. of Ecology and Evolutionary Biology, Jul 96 to Jul 98  
  
Post-doctoral associate, Dept. of Ecology and Evolutionary Biology  
& The Center for Energy and Environmental Studies, Jul 94 to Jul 96

Publications  
Peer-reviewed  
Journal Articles  
and Book  
Chapters

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- Perrings C., E. Fenichel and **A. Kinzig** In Press. Externalities of globalization: bioinvasions and trade  
In Perrings, C., H. Mooney and M. Williamson (eds) *Globalization and Bioinvasions: Ecology, Economics, Management and Policy*, Oxford, Oxford University Press.
- [vii] Lepczyk, C., P.S. Warren, L. Machabée, **A.P. Kinzig**, & A.G. Mertig. In press. Who feeds the birds? An urban comparison between Phoenix, Arizona and Southeastern Michigan. Accepted pending revisions in *Studies in Avian Biology*.
- [vi] Levin, S.A. (Volume Ed), S. Carpenter, C. Godfray, **A. Kinzig**, M. Loreau, J. Losos, B. Walker, and D. Wilcove (Assoc. Eds). In Press. *Princeton Guide to Ecology*. Princeton University Press, Princeton, NJ.
- [v] **Kinzig, A.** A guide to ecosystem services. To Appear in S.A. Levin (Volume Ed). *Princeton Guide to Ecology*. Princeton University Press, Princeton, NJ.
- [iv] Perrings, C., S. Baumgärtner, W.A. Brock, K. Chopra, M. Conte, C. Costello, **A.P. Kinzig**, U. Pascual, S. Polasky, J. Tschirhart, and A. Xepapadeas. In Press. The economics of biodiversity and ecosystem services. To appear in *Biodiversity and Human Impacts*. S. Naeem, D. Bunker, A. Hector, M. Loreau, and C. Perrings, eds. Oxford University Press.
- [iii] Brock, W.A., **A.P. Kinzig**, U. Pascual, C. Perrings, J. Tschirhart, and A. Xepapadeas. In Press. Modelling biodiversity and ecosystem services in coupled ecological-economic systems. To appear in *Biodiversity and Human Impacts*. S. Naeem, D. Bunker, A. Hector, M. Loreau, and C. Perrings, eds. Oxford University Press.
- [ii] Barbier E.B., S. Baumgärtner, K. Chopra, C. Costello, A. Duraiappah, R. Hassan, **A. Kinzig**, M. Lehman, U. Pascual, S. Polasky, C. Perrings. In Press. The valuation of Ecosystem services To appear in *Biodiversity and Human Impacts*. S. Naeem, D. Bunker, A. Hector, M. Loreau, and C. Perrings, eds. Oxford University Press.
- [i] Redman, C.L., M. Nelson, and **A.P. Kinzig**. In Press. The resilience of socio-ecological landscapes: Lessons from the Hohokam. In C. Fisher, J. Hill, and J. Fienman, eds. *The Socio-Natural Connection: Integrating Archeology and Environmental Studies*. University of Arizona Press, Tucson.
- [54] Leslie, H., and **A.P. Kinzig**. 2009. The resilience conceptual framework and marine ecosystem-based management. In K. McLeod and H. Leslie, eds. *Ecosystem-Based Management for the Oceans*. K. Island Press, Washington, DC.
- [53] Redman, C.L. and **A.P. Kinzig**. 2008. Water can flow uphill: A narrative of central Arizona. Pp. 238 to 271 in *Agrarian Landscapes in Transition*, C.L. Redman and D. Foster, eds. Oxford University Press
- [52] Hegmon, M., M. Peeples, **A. Kinzig**, S. Kulow, C.M. Meegan, and M.C. Nelson. 2008. Social transformation and its human costs in the prehispanic US southwest. *American Anthropologist* 110(3):313-324.
- [51] Anderies, J., B. Nelson, and **A.P. Kinzig**. 2008. Analyzing the impact of agave cultivation on famine risks in arid prehispanic northern Mexico. *Human Ecology* 36(3):409-422.
- [50] McDonald, R.I., C. Yuan-Farrell, C. Fievet, M. Moeller, P. Kareiva, D. Foster, T. Gragson, **A. Kinzig**, L. Kuby, and C. REDMAN. 2007. How effective are protected lands at preventing nearby development and spawning more conservation? *Conservation Biology* 21(6):1526
- [49] **Kinzig, A.P.** 2007. On incentives and social norms: a commentary on the Levin-Vincent exchange. *Ecological Research* 22(1):19-20.
- [48] Walker, B.H., J.M. Anderies, **A.P. Kinzig**, and P. Ryan, eds. 2006. Exploring Resilience in Social-Ecological Systems: Comparative Studies and Theory Development. A *Special Issue in Ecology*

- and Society* [online]. Volume 11, issue 1 [reprinted in book form by CSIRO publishing]
- [47] Walker, B.H., **A.P. Kinzig**, J.M. Anderies, and P. Ryan. 2006. Introduction to the *Special Issue*. Vol 11(1) article 12.
- [46] Walker, B.H., L. Gunderson, **A.P. Kinzig**, C. Folke, S. Carpenter, & L. Schulze. 2006. A handful of heuristics: Propositions for understanding resilience in social-ecological systems. Contributed article to the *Special Issue*. Vol 11(1) article 13.
- [45] **Kinzig, A.P.**, P. Ryan, M. Etienne, T. Elmqvist, H. Allison, & B.H. Walker. 2006. Resilience and regime shifts: Assessing cascading effects. Contributed article to the *Special Issue*. Vol 11(1) article 20.
- [44] Anderies, J., B. Walker, and **A.P. Kinzig**. 2006. 15 weddings and a funeral. Conclusion to the Special Issue Vol 11(1) article 21.
- [43] Lewis, D.B., J.P. Kaye, C. Gries, **A. Kinzig**, and C. Redman. 2006. Agrarian legacy in soil nutrient pools of urbanizing arid lands. *Global Change Biology* **12**(4):703-709.
- [42] Morgan, M.G., R. Cantor, B. Clark, A. Fisher, J. Jacoby, T. Janetos, **A. Kinzig**, J. Melillo, R. Street, and T. Wilbanks. 2005. Learning from the U.S. National Assessment of climate change impacts. *Environmental Science and Technology* **39**(23):9,023-32.
- [41] **Kinzig, A.P.**, P. Warren, C. Martin, D. Hope, & M. Katti. 2005. The effects of human socioeconomic status and cultural characteristics on urban patterns of biodiversity. *Ecology and Society* **10**(5):online at [www.ecologyandsociety.org](http://www.ecologyandsociety.org)
- [40] Walker, B.H., C.S. Holling, S. R. Carpenter, and A.P. **Kinzig**. 2004. Resilience, Adaptability, and Transformability. *Ecology and Society* **9**(2) 5. [online] URL: <http://www.ecologyandsociety.org/vol9/iss2/art5/>.
- [39] Martin, C., P. Warren, and A.P. **Kinzig**. 2004. Neighborhood socioeconomic status is a useful predictor of perennial landscape vegetation in residential neighborhoods and embedded small parks of Phoenix, Arizona. *Landscape and Urban Planning* **69**(4):355-368.
- [38] Ostling, A., J. Harte, J.L. Green, & A.P. **Kinzig**. 2004. Self similarity, the power law form of the species area relationship, and a probability rule: A reply to Maddux. *The American Naturalist* **163**(4):627-633.
- [37] **Kinzig, A.P.**, W.C. Clark, O. Edonhofer, G.C. Gallopin, W. Lucht, R.B. Mitchell, P. Romero Lankao, S. Sreekresh, C. Tickell, and O.R. Young. 2004. Science, society, and sustainability. Pp. 409-434 in *Earth System Analysis for Sustainability*, J. Schellnhuber, P. Crutzen, W.C. Clark, M. Claussen, and H. Held, eds. MIT Press.
- [36] Ostling, A., J. Harte, J.L. Green, and A.P. **Kinzig**. 2003. A community-level fractal property produces power-law species-area relationships. *Oikos* **103**(1):218-224.
- [35] **Kinzig, A.P.**, D. Starrett, B. Bolin, P. Dasgupta, P. Ehrlich, C. Folke, M. Hanneman, A.M. Jansson, B.O. Jansson, N. Kautsky, S. Levin, J. Lubchenco, K.G. Mäler, S. Pacala, S. Schneider, D. Siniscalco, and B. Walker. 2003. Coping with uncertainty: A call for a new science-policy forum. *Ambio* **32**(5):330-335.
- [34] Hope, D., C. Gries, W. Zhu, W.F. Fagan, C.L. Redman, N.B. Grimm, A. Nelson, C. Martin, and A.P. **Kinzig**. 2003. Socio-economics drive urban plant diversity. *Proceedings of the National Academy of Sciences* **100**:8,788-92.
- [33] Redman, C.L. and A.P. **Kinzig**. 2003. Resilience of past landscapes: Resilience theory, society, and the longue durée. *Conservation Ecology* **7**(1):article 14[online]. 19 pp.
- [32] **Kinzig, A.P.** 2003. On the benefits and limitations of prediction. Pp. 461-465 in *Models in Ecosystem Science*, C.D. Canham, J.J. Cole, and W.K. Lauenroth, eds. Princeton University Press,

Princeton, NJ.

- [31] Harris, G., S.W. Bigelow, J.J. Cole, H. Cyr, L.L. Janus, A.P. **Kinzig**, J.F. Kitchell, G.E. Likens, K.H. Reckhow, D. Scavia, D. Soto, L.M. Talbot, and P.H. Templer. 2003. The role of models in ecosystem management. Pp. 299-307 in *Models in Ecosystem Science*, C.D. Canham, J.J. Cole, and W.K. Lauenroth, eds. Princeton University Press, Princeton, NJ.
- [30] **Kinzig**, A.P., S. Pacala, and D. Tilman, eds. 2002. *Functional Consequences of Biodiversity: Empirical Progress and Theoretical Extensions*. Princeton University Press.
- [29] **Kinzig**, A.P. 2002. Opening remarks. pp.1-6 in A.P. Kinzig, S. Pacala, and D. Tilman, eds. *Functional Consequences of Biodiversity: Empirical Progress and Theoretical Extensions*. Princeton University Press.
- [28] Pacala, S. and A.P. **Kinzig**. 2002. Introduction to theory and the common ecosystem model. pp. 169-174 in A.P. Kinzig, S. Pacala, and D. Tilman, eds. *Functional Consequences of Biodiversity: Empirical Progress and Theoretical Extensions*. Princeton University Press.
- [27] **Kinzig**, A.P., and S. Pacala. 2002. Successional biodiversity and ecosystem functioning. pp. 175-212 in A.P. Kinzig, S. Pacala, and D. Tilman, eds. *Functional Consequences of Biodiversity: Empirical Progress and Theoretical Extensions*. Princeton University Press.
- [26] Balsler, T.C., A.P. **Kinzig**, and M.K. Firestone. 2002. Linking soil microbial communities and ecosystem functioning. pp. 265-293 in A.P. Kinzig, S. Pacala, and D. Tilman, eds. *Functional Consequences of Biodiversity: Empirical Progress and Theoretical Extensions*. Princeton University Press.
- [25] **Kinzig**, A.P., S. Pacala, and D. Tilman. 2002. Looking back and peering forward. pp. 314-329 in A.P. Kinzig, S. Pacala, and D. Tilman, eds. *Functional Consequences of Biodiversity: Empirical Progress and Theoretical Extensions*. Princeton University Press.
- [24] Walker, B., G. Peterson, M. Anderies, A. **Kinzig**, and S. Carpenter. Robustness in ecosystems. 2002. pp. 173-190 in *Robust Design: A Repertoire of Biological, Ecological, and Engineering Case Studies*, E. Jen, ed. Oxford University Press.
- [23] **Kinzig**, A.P. 2001. Bridging disciplinary divides to address environmental challenges. *Ecosystems* 4(8):709-715.
- [22] Schneider, L., A.P. **Kinzig**, E. Larson, and L.A. Solorzano. 2001. GIS-assisted calculation of potential biomass yields and assessment of land availability for biomass energy production. *Agriculture, Ecosystems, and Environment* 84(3):207-226.
- [21] **Kinzig**, A.P., and J. Harte. 2000. Implications of endemics-area relationships for estimates of species extinctions. *Ecology* 81(12):3305-3311.
- [20] Collins, J.P., A. **Kinzig**, N.B. Grimm, W.F. Fagan, D. Hope, J. Wu, and E.T. Borer. 2000. A new urban ecology. *American Scientist* 88:416-425.
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- [17] Harte, J., S. McCarthy, K. Taylor, A. **Kinzig**, and M. Fischer. 1999. Estimating species-area relationships from plot to landscape scale using species spatial-turnover data. *Oikos* 86(1):45-54.
- [16] Walker, B., A.P. **Kinzig**, and J. Langridge. 1999. Plant attribute diversity, resilience, and

- ecosystem function: the nature and significance of dominant and minor species. *Ecosystems* **2**(2):95-113.
- [15] Harte, J., A.P. **Kinzig**, and J. Booyer. 1999. Self-similarity in the distribution and abundance of species. *Science* **284**(5412):334-336.
- [14] **Kinzig**, A.P., S.A. Levin, J. Dushoff, and S. Pacala. 1999. Limiting similarity, species packing, and system stability for hierarchical competition-colonization models. *The American Naturalist* **153**(4):371-383.
- [13] **Kinzig**, A.P., and D.M. Kammen. 1998. National trajectories of carbon emissions: analysis of proposals to foster the transition to low-carbon economies. *Global Environmental Change* **8**(3):183-208.
- [12] **Kinzig**, A.P., and J. Harte. 1998. Selection of microorganisms in a spatially explicit environment, and implications for plant access to nitrogen. *Journal of Ecology* **86**(5):841-853.
- [11] Hartvigsen, G., A.P. **Kinzig**, and G. Peterson. 1998. Conveners and editors of a Special Feature on the use and analysis of complex adaptive systems in ecosystem science, and authors of an overview article (contributing authors to the Special Feature include S.A. Levin, E. Bonabeau, M. Janssen, B. Milne, and K. Sigmund). *Ecosystems* **1**(5):422-430.
- [10] Daily, G., P. Dasgupta, B. Bolin, P. Crosson, J. du Guerney, P. Ehrlich, C. Folke, A.M. Jansson, B.O. Jansson, N. Kautsky, A.P. **Kinzig**, S.A. Levin, K.G. Mäler, P. Pinstруп-Andersen, D. Siniscalco, and B. Walker. 1998. Food production, population growth, and environmental security. *Science* **281**(5381):1,291-92.
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- [8] Harte, J., and A.P. **Kinzig**. 1997. On the implications of species-area relationships for endemism, spatial turnover, and food web patterns. *Oikos* **80**(3):417-427.
- [7] Peterson, G., G.A. De Leo, J.J. Hellman, M.A. Janssen, A.P. **Kinzig**, J.R. Malcom, K. L. O'Brien, S.E. Pope, D.S. Rothman, E. Shevliakova, and R.T. Tinch. 1997. Uncertainty, climate change, and adaptive management. *Conservation Ecology* **1**(2): <http://www.consecol.org/vol1/iss2>
- [6] Allenby, B., A. Chagrin, H. Chum, M. Cole, W. Cummings, R. Doctor, S. Gottesfeld, F. Grassle, C. Gregoire Padró, D. Grether, P. Grimes, H. Herzog, E. Joyce, R. Judkins, J. Keller, A. **Kinzig**, W. Moomaw, S. O'Brien, J. Ogden, C. Powers, T.S. Ramakrishnan, A. Sagar, R. Scheer, J. Sheffield, Y. Shikari, R. Socolow, D. Spencer, M. Steinberg, W. Turkenberg, J. Watz, I. Wernick, and R. Williams. 1997. A new route to slowing atmospheric carbon-dioxide buildup: carbon sequestration and the hydrogen economy. *Energy*, Nov 1997.
- [5] Harte, J., M. Torn, F.R. Chang, B. Feifarek, A. **Kinzig**, M. Shaw, and K.P. Shen. 1995. Global warming and soil microclimate: results from a meadow-warming experiment. *Ecological Applications* **5**(1):132-150.
- [4] **Kinzig**, A.P., and R.H. Socolow. 1994. Human impacts on the nitrogen cycle. *Physics Today* Nov '94:24-31.
- [3] **Kinzig**, A.P., J.P. Holdren, and P. Hibbard. 1994. Safety and environmental comparisons of stainless steel versus alternative structural materials for fusion reactors. *Fusion Technology* **26**(1):79-104.
- [2] Harte, J., and A. P. **Kinzig**. 1993. Mutualism and competition between plants and decomposers: implications for nutrient allocation in ecosystems. *The American Naturalist* **141**(6):829-846.
- [1] Alers, G.B., M.B. Weissman, A.P. **Kinzig**, and N. Israeloff. 1987. Noise simulations of an Ising

model of glassy kinetics. *Physical Review B* **36**(16):8429–8435.

Commentaries,  
Editorials, &  
Book Reviews

- Kinzig, A.P.** 2008. The problem with carbon fixation. *Frontiers in Ecology and the Environment* **6**(1):3.
- Crane, P. & **A.P. Kinzig.** 2005. Nature in the metropolis. Editorial. *Science* **308**:1225.
- Kinzig, A.P.** 2002. All people who on Earth do dwell. *Trends in Ecology and Evolution* **17**(5):207.
- Kinzig, A.P.** 2001. A time to plant. *Trends in Ecology and Evolution* **17**(1):10.
- Kinzig, A.P.** 2001. Where have all the people gone? *Trends in Ecology and Evolution* **16**(6):278.
- Kinzig, A.P.** 2001. Since I have a hammer. *Trends in Ecology and Evolution* **16**(2):73.
- Kinzig, A.P.,** and D.M. Kammen. 1998. Policy planning to meet the short- and long-term challenges of global climate change. Energy and Resources Group Newsletter, October 1998.
- Kinzig, A.P.** 1997. Population and agriculture. A review of Cohen's "How Many People Can the Earth Support", Brown's "Who Will Feed China", and Waggoner's "How Much Land can 10 Billion People Spare for Nature?". *Journal of Industrial Ecology* Vol 1.
- Kinzig, A.P.** 1997. Synthesis in ecology: applications, opportunities, and challenges. A review of a meeting held in Santa Barbara, California in November 1996. *The Bulletin of the Ecological Society of America*, April 1997.

Selected  
Reports &  
Other  
Publications

- The Resilience Alliance. 2007. *Assessing and Managing Resilience in Social-Ecological Systems: A Practitioners Workbook*. Authored by L. Gunderson, A.P. Kinzig, A. Quinlan, and B. Walker under the auspices of the Resilience Alliance, and available at <http://www.resalliance.org/3871.php>
- Kaiser, M. (chair), J. van der Sluijs (rapporteur), S. Beder, V. Hosle, A. Kemelmajer de Carlucci, & A.P. Kinzig. 2005. Report of the Expert Group on the Precautionary Principle of the World Commission on the Ethics of Scientific Knowledge and Technology (COMEST). Presented in Paris, 1 February 2005.
- Folke, C., S. Carpenter, T. Elmqvist, L. Gunderson, C.S. Holling, B. Walker, J. Bengtsson, F. Berkes, J. Colding, K. Danell, M. Falkenmark, L. Gordon, R. Kaspersen, N. Kautsky, A. **Kinzig**, S. Levin, K.G. Mäler, F. Moberg, L. Ohlsson, P. Olsson, E. Ostrom, W. Reid, J. Rockström, H. Savenije and U. Svedin. 2002. *Resilience and Sustainable Development: Building Adaptive Capacity in a World of Transformations*. Scientific Background Paper on Resilience for the process of The World Summit on Sustainable Development on behalf of The Environmental Advisory Council to the Swedish Government. ICSU, Paris.
- Kinzig, A.P.,** J. Antle, W. Ascher, W. Brock, S. Carpenter, F. S. Chapin III, R. Costanza, K. Cottingham, M. Dove, H. Dowlatabadi, E. Elliot, K. Ewel, A. Fisher, P. Gober, N. Grimm, T. Groves, S. Hanna, G. Heal, K. Lee, S. Levin, J. Lubchenco, D. Ludwig, J. Martinez-Alier, W. Murdoch, R. Naylor, R. Norgaard, M. Oppenheimer, A. Pfaff, S. Pickett, S. Polasky, H.R. Pulliam, C. Redman, J.P. Rodriguez, T. Root, S. Schneider, R. Schuler, T. Scudder, K. Segersen, R. Shaw, D. Simpson, A. Small, D. Starrett, P. Taylor, S. van der Leeuw, D. Wall, and M. Wilson. *Nature and Society: An Imperative for Integrated Environmental Research*. A report of a workshop, presented to the National Science Foundation November 2000. <http://lsweb.la.asu.edu/akinzig/report.htm>
- Kinzig, A. P.,** S. Carpenter, M. Dove, G. Heal., S.A. Levin, J. Lubchenco, S. Schneider, and D. Starrett. 2000. *Nature and Society: An Imperative for Integrated Research*. <http://lsweb.la.asu.edu/akinzig/report.htm>, Executive Summary of a report prepared for the National Science Foundation.
- Kinzig, A.P.,** L. Schneider, L.A. Solorzano, and E. Larson. 1999. *GIS-Assisted Calculation of Potential*

*Biomass Yields Applied to a Regional Assessment of Land Availability for Biomass Energy Production in Northeast Brazil.* PU/CEES Report 317, Center for Energy and Environmental Studies, Princeton University, Princeton, NJ, August 1999.

Letters

- Harte, J., A. Ostling, J. Green, and A. **Kinzig**. 2004. Brief Communication Arising: Climate change and extinction risk. *Nature* **430**(6995):online.
- Harte, J., A.P. **Kinzig**, J. Green. 1999. Technical Comment: On the distribution and abundance of species. *Science* **286**(5445):1647.
- Kinzig**, A.P. and R. Socolow. 1995. Is nitrogen-fertilizer use nearing a balance? *Physics Today* **48**(8):75.

Manuscripts in revision or review

Brock, W., **A. Kinzig**, and C. Perrings. Biological invasions, biological diversity, and trade. Submitted to *Environmental and Resource Economics* Jun 2008.

Manuscripts in preparation (drafts available)

- Kinzig**, **A.P.**, C. Perrings, and R. Scholes. Ecosystem services and the economics of biodiversity conservation. To be submitted to *Conservation Biology*.
- Lewis, D.B., J. Kaye, and **A. P. Kinzig**. Legacies of past agrarian land use in the carbon and nitrogen pools of urban soil. To be submitted to *Ecology Letters*.
- Kinzig**, **A.P.**, P.R. Ehrlich, L. Alston, K. Arrow, S. Barrett, T. Buchman, G. Daily, B. Fischhoff, S. Fitzpatrick, B. Levin, S. Levin, M. Oppenheimer, E. Sotrom, D. Saari, & B. Boyle Torrey. Norms and abnormal problems. To be submitted to *Science Policy Forum*.
- Nelson, M., S. Kulow, M. Peebles, M. Hegmon, **A. Kinzig**, & K. Kintigh. Resisting diversity in small-scale societies: A long-term archeological study. To be submitted to *Ecology and Society*.
- Warren, P., S. Harlan, C. Boone, S.B. Lerman, E. Shochat, & **A.P. Kinzig**. Urban ecology and human social organization. In preparation for an *Ecological Reviews* volume on Urban Ecology, Cambridge University Press.
- Kinzig**, **A.P.**, T. McShane, S. O'Connor, & C. Perrings. Conservation as if people mattered: Ecosystem service 'hot spots'. In preparation for *Science Policy Forum*.

Grants Current

*MacArthur Foundation*

Advancing Conservation in a Social Context. A. Kinzig, ASU PI (collaborators include T. McShane, S. O'Connor, P. Brosius, & M. Pulgar-Vidal). 1 Jan 07 to 31 Dec 09. \$4,300,000.

*National Science Foundation*

Integrated Analysis of Robustness in Dynamic Social Ecological Systems. J. Anderies (PI). Kinzig one of four co-PIs. 1 Aug 2005 to 28 Feb 2009. \$749,278.

Long-term coupled socio-ecological change in Northern Mexico and the American Southwest. M. Nelson (PI). Kinzig one of several internal co-PI's. 15 Sep 2005 to 31 Aug 2008. \$540,955.

IGERT in Urban Ecology. C. Redman (PI). Kinzig one of four co-PIs. 15 Jun 2005 to 31 May 2010. \$3,184,586.

Central Arizona Phoenix LTER: Phase 2. N. Grimm (PI). Kinzig one of several internal co-PIs. 1 Nov 2004 to 31 Oct 2010. \$4,919,954.

Decision Center for a Desert City. P. Gober (PI). Kinzig one of several internal co-PIs, and co-leader of one of five research teams. 15 Sep 2004 to 31 Aug 2009. \$4,099,996.

BIOCOMPLEXITY, Coupled Human and Natural Dynamics: Agrarian Landscapes in Transition: A Cross-Scale Approach. Division of Behavioral and Cognitive Sciences. C. Redman (PI). A.P. Kinzig, D.R. Foster, M. Gutmann, and P. Kareiva (co-PIs). DEB-0216560. 15 Aug 02 to 14 Aug 07 (by no-cost extension). \$1,792,440.

Decision Center for a Desert City: Science and Policy of Climate Uncertainty. P. Gober (PI). Kinzig as one of many internal co-PI's; one of eight team leaders. Directorate for Social, Behavioral, and Economic Sciences. 1 Jan 04 to 31 Dec 08. \$7,497,948.

Former *MacArthur Foundation*

Advancing Conservation in a Social Context. A. Kinzig, ASU PI (collaborators include T. McShane, W. Adams, P. Brosius, D. Capistrano, S. O'Connor, M. Pulgar-Vidal and K. Redford). 20 Dec 04 to 30 Jun 06 (extended to 31 Dec 06). \$786,887.

*National Science Foundation*

Enabling the Study of Long-Term Human and Social Dynamics: A Cyberinfrastructure for Archeology. K. Kintigh (PI). Kinzig one of several internal co-PIs. 15 Sep 04 to 31 Aug 05. \$100,000.

IGERT in Urban Ecology Supplement Request: International Collaborative Research Experience. S. Fisher (PI), A.P. Kinzig and C.L. Redman (co-PIs). DGE-9987612-001. 01 Aug 01 to 31 Jul 03 (extension requested). \$59,700.

UMEB: Educating a New Generation of Environmental Professionals. J. Collins (PI); B. Davidson, L. Gerber, A. Kinzig, and R. Rutowski (co-PIs). DBI-0305279. 01 Sep 03 to 31 Aug 04. \$69,405.

Developing a Research Agenda for Linking Biogeophysical and Socioeconomic Systems. Division of Environmental Biology. A. Kinzig (PI). DEB-0073653-002. 01 Mar 00 to 15 Aug 03. \$121,706.

Biocomplexity Incubation Activity: Linking ecology, physiology, and climate change: Influence of environmental stress on community structure in the rocky intertidal. National Science Foundation, Division of Environmental Biology. G. Hofmann (PI). B. Helmuth, A.P. Kinzig, and B. Menge (co-PIs). 15 Aug 00 to 14 Aug 02. \$61,896.

Sustaining and Valuing Natural Resources, Summer 1999 Workshop in Washington, DC. Ann P. Kinzig (PI). National Science Foundation, Division of Environmental Biology. 01 Jul 99 to 30 Sep 00. \$15,950.

U.S.-U.K.-Japan Collaboration: The Relationship between Biodiversity and Ecosystem Functioning. National Science Foundation, International Division. S.A. Levin (PI). A.P. Kinzig and S. Pacala (co-PIs). 01 Apr 98 to 30 Sep 02. \$107,139.

*McDonnell Foundation*

Spatiotemporal Aspects of Resilience in Complex Urban Systems. A. Kinzig (PI). C. Redman and S. van der Leeuw (collaborators). 01 Jan 02 to 31 Dec 04 (no-cost extension to 31 Dec 05). \$448,442.

	<p><i>Packard Foundation</i></p> <p>Marine Resilience: Applying the resilience concept to human-dominated ocean and coastal systems. Grant awarded to The Resilience Alliance; A. Kinzig, primary contact. \$188,225.</p> <hr/>
Teaching & Training University Courses	<p><i>Arizona State University</i></p> <p>Bio 182: Introductory Biology (F00)</p> <p>Bio 187: Introductory Biology (F01, F05, F06)</p> <p>Bio 314: Research Colloquium for Biology and Society I (S06, S07, S08)</p> <p>Bio 320: Fundamentals of Ecology (S00, S01, S02)</p> <p>Bio 414: Research Colloquium for Biology and Society II (S06, S07, S08)</p> <p>Bio 591/SOS 535: Biodiversity and Ecosystem Services (S08)</p> <p>Bio 591: Resilience of Coupled Social-Ecological Systems (S04)</p> <p>Bio 591: Complex Adaptive Systems (F03)</p> <p>Bio 591: Archeological Perspectives on Landscapes (F02)</p> <p>Bio/SOS 591: Intellectual Issues (F07, F08)</p> <p>IGERT Workshop: Urban Parks (F01, S02)</p>
Short Courses at other Institutes	<p>3 to 7 Nov 08. <i>Dissertation Initiative for the Advancement of Climate Change Research</i>. Saguaro Lake, AZ. Gave lectures and participated in mentoring activities for graduate students and post-docs interested in interdisciplinary climate-change research.</p> <p>28 to 30 May 07. <i>PhD Programme in Analysis and Governance of Sustainable Development</i>, Venice International University. Venice, Italy. Offered lectures on the ecology and economics of ecosystem services to international PhD students enrolled in the program.</p> <p>30 Jul to 3 Aug 06. <i>The Resource Accounting Network for Southern and Eastern Africa, Training and Research Workshop</i>. Pretoria, South Africa. Offered lectures on the ecology of ecosystem services and resilience to young professors and government personnel from Eastern and South Africa engaged in natural-resource accounting.</p> <p>25 to 27 Sep 05. <i>Environmental Grantmakers Association Annual Retreat</i>. New Paltz, NY. Coörganizer (with Frances Westley) of a 'short course' on Resilience.</p> <p>May 04. <i>The Resilience Alliance Annual Meeting</i>. Nagambie, Australia. Organizer of, and lecturer for, a one-day 'short course' on resilience for marine researchers. Nagambie, Australia. May 04.</p> <p>Jun 03. <i>Dibner Institute, Summer Workshop on Human Dimensions of Ecology</i>. Woods Hole, MA. Invited lecturer and participant.</p> <p>Jun 02. <i>Dibner Institute, Summer Workshop on Putting Humans into Ecology</i>. Woods Hole, MA. Invited lecturer and participant.</p> <p>May 02. <i>Stockholm University, PhD course in urban ecology</i>. Stockholm, Sweden. Offered lectures on urban ecology to students from Stockholm and developing countries.</p> <p>Dec 98. <i>Beijer Institute for Ecological Economics</i>. Santa Fe Institute, NM. Coörganizer (with S. Levin) and Lecturer for intensive course on ecological systems for economists from developing nations, Santa Fe Institute, NM. Dec 98.</p> <p>Oct to Nov 94. <i>International Centre for Theoretical Physics, 4<sup>th</sup> Autumn Course and International Conference on Mathematical Ecology</i>. Trieste, Italy. Delivered lectures on theoretical ecology, primarily to PhD students from developing nations.</p>
Post-doctoral Researchers	<p><i>Current</i></p> <p>Rodrigo Arriagado (2008 to present, environmental economics)</p>

	<p><i>Former</i></p> <p>Ellen Banzhaff (2003, remote sensing)          Heather Leslie (Jul 2004 to Aug 2007, marine systems)          David Lewis (Jan 2005 to Dec 2005, biogeochemistry)          Louis Machabée (Aug 2002 to Sep 2005, sociology)          Matthias Moeller (Oct 2003 to Dec 2005, remote sensing)          Samuel Schmeiding (2002 to 2003, environmental history)          Glenn Stuart (Jan 2004 to Jul 2005, paleobotany)          Paige S. Warren (2000 to 2002, avian ecology)</p>
Graduate Students	<p><i>Current</i></p> <p>[students are at Arizona State University unless otherwise indicated]          Brad Butterfield (Ph.D. co-chair, Life Sciences)          Cecilia Gonzales (M.S., chair, Life Sciences)          Kris Gade (Ph.D. chair, Life Sciences)          Scott Ingram (Ph.D. committee member, Anthropology)          Cathryn Meegan (Ph.D. committee member, Anthropology)          Mark Neff (Ph.D. committee member, Life Sciences)          Hoski Schaafsma (Ph.D. co-chair, Life Sciences)          Shade Shutters (Ph.D. chair, Life Sciences)          Steve Swanson (Ph.D. committee member, Anthropology)</p> <p><i>Former</i></p> <p>Jesse Brunner (Ph.D. committee member, Life Sciences)          James Heffernan (Ph.D. committee member, Life Sciences)          Maya Kapoor (M.S. chair, Life Sciences)          Steven Metzger (MNS committee chair, Life Sciences)          John Murphy (GRA, McDonnell grant)          Angela Picco (Ph.D. committee member, Life Sciences)          John Roach (Ph.D. committee member, Life Sciences)          Jason Walker (Ph.D. committee member, Life Sciences)</p>
Undergraduate Student Researchers	<p><i>Current</i></p> <p>Ariana Fox</p> <p><i>Former</i></p> <p>Monica Brennan, David Cohen, Carrie Durwald, Alexandra Glorioso, Daniel Hinnebusch, Monica Kwasny, Heather Lange, Allyn Knox, Brian Lutz, Kaila Meyer, Jeremy Micus, Nich Moore, Xochitl Orozco, Brenda Rascon</p>
Professional Activities	<hr/> <p>NEON's Science, Technology, and Education Advisory Committee (Jul 08 to present)          Ecological Society of American Governing Board, Member at Large (Aug 07 to present)          U.S. National Committee on Diversitas, Vice Chair (Jul 07 to present)          Editorial Board, <i>Environmental Research Letters</i> (May 06 to present)</p>
National and International Boards & Committees	<p>Committee on the Human Dimensions of Global Change, National Research Council (Aug 2005 to present)          Editorial Board, <i>Ecology and Society</i> (Sep 04 to present)          Advisory Board, bio-era (Dec 02 to present)          Editorial Board, <i>Issues in Ecology</i> (Apr 02 to Aug 07)          Member's Board of Directors, <i>The Resilience Alliance</i> (Apr 01 to present)</p>
Memberships	<p><i>Ecological Society of America</i></p>

	<p><i>American Association for the Advancement of Science</i> <i>Rocky Mountain Biological Laboratory</i></p>
Review Activities	<p>I regularly review articles for the following journals: <i>Science, PNAS, Journal of Theoretical Biology, Ecology, Ecological Applications, Ecological Economics, Environmental Management</i></p> <p>I have reviewed books or textbooks for the following presses (last 4 years): <i>Princeton University Press; Pearson Press; Harvard University Press</i></p> <p>I regularly review proposals for <i>The National Science Foundation and The AAAS Science-Policy Fellowship Program</i></p>
Invited Presentations last 3 years	<hr/> <p>13 to 17 Apr 08. <i>A Portfolio Approach to Crop Vulnerability in Pre-Hispanic Northern Mexico</i>. Resilience 2008, Stockholm, Sweden. Co-authors J. Anderies and B. Nelson</p> <p>15 to 18 Feb 08. <i>The Balance of Nature</i>. Invited symposium talk for "Sustainability without Stability: New Goals for a World in Flux". AAAS Annual Meeting, Boston, MA.</p> <p>1 to 6 Oct 07. <i>Resilience and Sustainable Development in an N-Rich/N-poor World</i>. Invited plenary talk, with C. Perrings. 4<sup>th</sup> International Nitrogen Conference, Salvador, Brazil.</p> <p>6 to 10 Aug 07. <i>The Resilience Framework and the Science Society Dialogue</i>. Invited talk, Symposium. Ecological Society of America Annual Meeting, San Jose, CA.</p> <p>11 Oct 06. <i>Resilience in Social-Ecological Systems</i>. Energy &amp; Resources Group colloquium, University of California at Berkeley.</p> <p>6 Oct 06. <i>Birds in the City</i>. Pinetop-Lakeside Audubon Society.</p> <p>15 Mar 06. <i>Creating the Cities of Tomorrow: A Science-Policy Interface for Sustaining Ecosystem Services</i>. Departmental Colloquium, Civil and Environmental Engineering, Princeton University.</p> <p>9 Feb 06. <i>Phoenix of the Future: Historical Foundations for Assessing Sustainability</i>. Invited talk at a 'Phoenix of the Future' Symposium, Phoenix College, Phoenix, AZ.</p>
Other Meetings & Conferences Organizer or chair; last 3 years	<p>28 to 30 May 08. <i>Analyzing the Role of Agricultural Transformation and Invasive Species in Disease Emergence</i>. . Coörganized with Peter Daszak and Charles Perrings. Global Institute of Sustainability, ASU.</p> <p>31 Jan to 1 Feb. <i>US National Committee of Diversitas</i>. Funded and organized a small sub-committee to plan for an upcoming Darwin Conference on biodiversity. ASU.</p> <p>25 Jan 08. <i>Biodiversity Summit</i>. A gathering of ASU researchers with interests in biodiversity. Held at the Global Institute of Sustainability, ASU. Coörganized with Jonathan Fink.</p> <p>7 to 9 Nov 07. <i>Resilience and Ecosystem Services</i>. Coörganized with John Holdren. Woods Hole, MA.</p> <p>15 to 16 May 07. <i>Ecosystem Services within the LTER Network</i>. . Coörganized with F. Stuart Chapin and Stephen Carpenter. Portland, OR.</p>
Submitted talks or Attendee	<p>Over the last three years, I have attended numerous meetings focused on conservation, resilience, ecosystem services, human dimensions of global change, urban ecology, and sustainability. These meetings have been held in Australia, Brazil, Canada, France, India, Japan, Mexico, Russia, South Africa, Spain, Sweden, Switzerland, the United Kingdom, and the United States.</p>

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