



SESYNC Feedbacks

News from the National Socio-Environmental Synthesis Center

SESYNC Invites Proposals for Interdisciplinary Team-Based Research

SESYNC has a tradition of announcing focal themes with each RFP and below we announce new thematic topic areas. However, there are many potential projects with great applicability to socio-environmental problems that fall outside these themes. Accordingly, we are also open to exciting and creative project proposals outside the topical areas listed below:

- Social and Environmental Dimensions of the Food-Water-Energy Nexus
- Global Change and Health
- Freshwater and Ecosystems in a Changing World
- Socio-Environmental Implications of Large-Scale Infrastructure Projects

Learn about applying for Pursuits and Workshops. Deadline May 15.



Tips for Submitting Your Research Proposal

News from the Center



Tool to provide insight on local-level stressors and their impacts on bee health

A new online tool and community, called Beescape, enables beekeepers, or anyone interested in bees, to understand the specific stressors to which the bees in their managed hives, home gardens or farms are exposed.

[Read the full release from Penn State.](#)



Climate change could undermine children's education and development in the tropics

A new study published in *PNAS* concludes that exposure to extreme heat and precipitation in prenatal and early childhood years in countries of the global tropics could make it harder for children to attain secondary school education, even for better-off households.

[Read the full release from SESYNC.](#)



From Ivory Tower to Prison Tower

Using trees and environmental science as a backdrop, forest ecologist finds synergy with those excluded from science and society.

[Read more about the Seminar presentation.](#)

SESYNC Publications

Fungal colonization of plant roots is resistant to nitrogen addition and resilient to dominant species losses. Published in *Ecosphere* by Jeremiah Henning and colleagues including SESYNC postdoc Quinten Read.

Governing the recreational dimension of global fisheries. Published in *PNAS* by Robert Arlinghaus and colleagues as part of the Pursuit, *Managing Recreational Fisheries as Complex Adaptive Socio-Ecological Systems*.

Governing evolution: A socioecological comparison of resistance management for insecticidal transgenic Bt crops among four countries. Published in the *Ambio* by Yves

Carrière and colleagues as part of the Pursuit, [Living with Resistance](#).

Integrating team science into interdisciplinary graduate education: an exploration of the SESYNC Graduate Pursuit. Published in *Journal of [Environmental Studies and Sciences](#)* by Kenneth Wallen and colleagues as part of the Graduate Pursuit, [Shifting Fish and Fishers](#).

Featured Collection Introduction: The Emerging Science of Aquatic System Connectivity I. Published in *[Journal of American Water Resources Association](#)* by SESYNC postdoc Nate Jones and colleagues.

Can nature deliver on the sustainable development goals? Published in *[The Lancet Planetary Health](#)* by Brendan Fisher and colleagues as part of the Pursuit, [Evaluating relationships among human health & welfare, ecological condition & natural resource governance](#).

A novel computational green infrastructure design framework for hydrologic and human benefits. Published in *[Environmental Modelling and Software](#)* by Ankit Rai and colleagues as part of the Venture, [Role of Green Infrastructure](#).

Modeling cocaine traffickers and counterdrug interdiction forces as a complex adaptive system. Published in *[PNAS](#)* by Nicholas Magliocca and colleagues.

Evaluating the impacts of protected areas on human well-being across the developing world. Published in *[Science Advances](#)* by Robin Naidoo and colleagues as part of the Pursuit, [Evaluating relationships among human health & welfare, ecological condition & natural resource governance](#).

Conventional land-use intensification reduces species richness and increases production: A global meta-analysis. Published in *[Global Change Biology](#)* by Michael Beckmann and colleagues as part of the Pursuit, [Land Use-Biodiversity-Ecosystem Services Trade-offs](#).

How Methods for Navigating Uncertainty Connect Science and Policy at the Water-Energy-Food Nexus. Published in *[Frontiers in Environmental Science](#)* by Laurie Yung and colleagues, including SESYNC researcher Kristal Jones.

A framework for characterising and evaluating the effectiveness of environmental modelling. Published in *[Environmental Modelling and Software](#)* by Serena Hamilton and colleagues as part of the Pursuit, [Core Modeling Practices](#).

Climate change and educational attainment in the global tropics. Published in *[PNAS](#)* by former SESYNC postdoc Heather Randell and Clark Gray.

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