



## SESYNC Feedbacks

News from the National Socio-Environmental Synthesis Center

### NEW TUTORIAL | Creating Socio-Environmental Scenarios

#### Watch the Latest Tutorial Video in Our S-E Systems Modeling Series

In case you missed our [last socio-environmental systems modeling webinar](#), "Creating Socio-Environmental Scenarios," a full tutorial from webinar presenters Vanessa Schweizer and Hannah Kosow is now available.

Based on the 2020 article "Scenario processes for socio-environmental systems analysis of futures: A review of recent efforts and a salient research agenda for supporting decision making," published in [Science of The Total Environment](#), this tutorial video explains the life cycle of scenario development. [Watch it now.](#)



### TUTORIAL VIDEOS | Socio-Environmental Modeling Series

Be sure to check out all the other tutorial videos in our Socio-Environmental Systems (SES) Modeling series!

#### Building the Basics Part 1: Socio-Environmental

## Systems as Complex Adaptive Systems

*Presented by Margaret Palmer*

This first video in this three-part series introduces the fundamental characteristics of socio-environmental systems as complex adaptive systems. This video lays the groundwork for understanding the essential features of non-linear dynamical systems that must be captured in models.

[Watch now.](#)



## Building the Basics Part 2: Defining the Problem and Spanning Boundaries

*Presented by Margaret Palmer*

The second video in this three-part series discusses the vexing problems associated with socio-environmental systems and how diverse modeling teams can span boundaries to understand and explore solutions to these problems. [Watch now.](#)



## Building the Basics Part 3: Choosing a Modeling Approach

*Presented by Margaret Palmer*

The final video in this three part series explains how to choose the right modeling approach, including when and why different modeling approaches are applied to socio-environmental systems. [Watch now.](#)



## Understanding the Grand Challenge in SES Modeling

*Presented by Sondoss El Sawah*

This tutorial video explores the present status and future of SES modeling, while highlighting current challenges and paths forward. It's based [on the 2020 article](#) "Eight grand challenges in socio-environmental systems modeling."

[Watch now.](#)



## Confronting Issues of Scale in SES Modeling

*Presented by Hsiao-Hsuan 'Rose' Wang*

This tutorial video presents the types of scale issues likely to arise in each SES modeling phase, while highlighting how to deal with them. It's based [on the 2021 article](#) "Socio-technical scales in socio-environmental modeling: Managing a system-of-systems modeling approach." [Watch now.](#)



Be sure to [subscribe](#) to SESYNC's YouTube channel to get notified whenever new videos are added.



THE NATIONAL SOCIO-ENVIRONMENTAL SYNTHESIS CENTER

# SEMINAR SERIES

NOVEMBER 16, 2021 AT 1:00 P.M. ET

Dr. Christopher Schell, University of California, Berkeley

"Coyotes, Conflict, and Cities: Exploring the Role of Social Heterogeneity in Shaping Coyote Behavior"

## VIRTUAL SERIES

Seminars are free and open to the public. Registration required.

### Join SESYNC for Our Next Virtual Seminar on November 16, 2021

Dr. Christopher Schell, of the University of California, Berkeley, will present "**Coyotes, Conflict, and Cities: Exploring the Role of Social Heterogeneity in Shaping Coyote Behavior.**"

Abstract: Despite recent groundbreaking discoveries and innovation in the fields of urban ecology, evolution, and behavior, work investigating how variance in human social systems induces behavioral change is relatively nascent. Within-city variation in how humans perceive and interact with wildlife likely predicts the strategies that urban organisms may use to navigate the city. Hence, variation across multiple axes (e.g., cultural, political, demographic) may explain variance in observed behavioral shifts of wildlife. In this talk, I will discuss how social heterogeneity in the built environment contributes to human-carnivore conflict using lessons from the coyote (*Canis latrans*). [Continue reading.](#)

**Talks are free and open to the public. Registration is required. [Register here.](#)**

## NEW PUBLICATIONS | SESYNC in the Journals

**"Rethinking the design of resilience and adaptation indicators supporting coastal communities."** Published in *Journal of Environmental Planning and Management* by Jesse M. Keenan and Keely Maxwell. This paper resulted from the Workshop, [Socio-environmental systems indicators for climate change adaptation & resilience in the US.](#)

**"Spatial contagion structures urban vegetation from parcel to landscape."** Published in *People and Nature* by former SESYNC postdoc Dexter H. Locke and colleagues Alessandro Ossola, Emily Minor, and Brenda B. Lin.

**"Lessons learned from development of natural capital accounts in the United States and European Union."** Published in *Ecosystem Services* by Kenneth J. Bagstad, Jane Carter Ingram, Carl D. Shapiro, Alessandra La Notte, Joachim Maes, Sara Vallecillo, C. Frank Casey, Pierre D. Glynn, Mehdi P. Heris, Justin A. Johnson, Chris Lauer, John, Matuszak, Kirsten L. L. Oleson, Stephen M. Posner, Charles Rhodes, and Brian Voigt. This paper resulted from the Pursuit, [Accounting for US Ecosystem Services at National and Subnational Scales.](#)

**"Seeing the churches like the state: taxes and wealth redistribution in late antique Italy."** Published in *Early Medieval Europe* by former SESYNC postdoc Merle Eisenberg and colleague Paolo Tedesco.

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