

Core Modeling Practices

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Principal Investigator:

Tony Jakeman, Australian National University
Suzanne Pierce, University of Texas at Austin
Sondoss El Sawah, University of New South Wales, Australia

Associated Program:

[Enhancing Socio-Environmental Research & Education](#) [1]

Collaborative Site:

[Group Collaboration](#) [2]

Email List:

modelprocesspractices@lists.sesync.org [3]

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Models play a key role in understanding and managing socio-environmental issues. Successful models help integrate various sources of data, perspectives, and knowledge; facilitate stakeholder participation; and support decision making. Such success depends on the use of effective practices throughout the model development lifecycle starting from defining objectives through using the model to draw insights and recommendations. From an interdisciplinary research perspective, access to best modeling practices is often limited because these practices are often captured and evaluated from a single field or disciplinary viewpoint and in a vacuum from what stakeholders think and need. This synthesis project aims to identify and articulate core modeling practices into products and methods that are accessible and relevant to different disciplinary and stakeholder perspectives. We will address the following fundamental question: From an interdisciplinary perspective, what are the core practices that should be employed in developing and using models to support integrated water resource management? Effective practices can be wrapped in different forms and formats to serve research (e.g. research publications), teaching (e.g. curricula), management (e.g. training courses and accreditation), and implementation (e.g. documented methodologies) purposes.

The Theme [Building Resources for Complex, Action-Oriented Team Science](#) [5] provides opportunities for the wider global community to interact with this Pursuit.

Participants:

Megha Babbar-Sebens, Oregon State University
Jennifer Badham, Queen's University Belfast
Dan Ames, Brigham Young University, USA
Gabriele Bammer, The Australian National University
Patricia Gober, Arizona State University
Randy Hunt, USGS
Amy Krakowka Richmond, United States Military Academy, West Point
Gerard Learmonth, University of Virginia
Daniel Loucks, Cornell University

Scott Peckham, University of Colorado, Boulder
Val Snow, AgResearch Limited, New Zealand
Baihua Fu, Australian National University
Joseph Guillaume, Aalto University
Serena Hamilton, Edith Cowan University, Australia
David Hawthorne, SESYNC
Mary Hill, Kansas University

Associated SESYNC Researcher(s):

[dhawthorne](#) [6]

[gbammer](#) [7]

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<https://www.sesync.umd.edu/project/enhancing-socio-environmental-research-education/model-process-practices>

Links

[1] <https://www.sesync.umd.edu/opportunities/enhancing-socio-environmental-research-education>

[2] <https://collab.sesync.org/groups/modelprocesspractices>

[3] <mailto:modelprocesspractices@lists.sesync.org>

[4] <https://lists.sesync.org>

[5] <https://www.sesync.org/theme-11>

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