

## Introducing Conservation Social Science

### 1. Control, Communication, & Complex Systems (Wk1)

- - Holling, C. S, and Gary K Meffe. 1996. "[Command and Control and the Pathology of Natural Resource Management.](#)" *Conservation Biology* 10 (2): 328–37.
  - Wynne, Brian. "Sheepfarming After Chernobyl: A Case Study in Communicating Scientific Information." *Environment* 31, no. 2 (March 1989): 10–15 and 33–40.
  - Bennett, Nathan J., Robin Roth, Sarah C. Klain, Kai Chan, Patrick Christie, Douglas A. Clark, Georgina Cullman, et al. 2017. "[Conservation Social Science: Understanding and Integrating Human Dimensions to Improve Conservation.](#)" *Biological Conservation* 205 (January): 93–108.
  - Steelman, Toddi A., and George R. Hess. 2009. "[Effective Protection of Open Space: Does Planning Matter?](#)" *Environmental Management* 44 (1): 93–104.

### 2. Learning, Complex Social-Ecological Systems, and Adaptive Management (Wk2 )

- Tidball, Keith G. 2016. "[Traps in and of Our Minds: Relationships between Human Logic, Dialectical Traps and Social-Ecological Traps.](#)" *Sustainability Science* 11 (6): 867–76.
- Fischer, A Paige, Thomas A Spies, Toddi A Steelman, Cassandra Moseley, Bart R Johnson, John D Bailey, Alan A Ager, et al. 2016. "[Wildfire Risk as a Socioecological Pathology.](#)" *Frontiers in Ecology and the Environment* 14 (5): 276–84.
- Fazey, Ioan, John A. Fazey, and Della M. A. Fazey. 2005. "[Learning More Effectively from Experience.](#)" *Ecology and Society* 10 (2).
- Wyborn, Carina. 2015. "[Co-Productive Governance: A Relational Framework for Adaptive Governance.](#)" *Global Environmental Change* 30 (January): 56–67.

### 3. Participation (Wk3)

- Arnstein, Sherry R. "[A Ladder of Citizen Participation.](#)" *Journal of the American Institute of Planners* 35, no. 4 (1969): 216–24.
- Reference Manual: National Research Council. [Public Participation in Environmental Assessment and Decision Making](#). Thomas Dietz and Paul C. Stern. Washington, D.C.: National Academies Press, 2008. Read - Chapter 2: The Promises and Perils of Participation p. 33-74.
- Chess, Caron, and Kristen Purcell. "[Public Participation and the Environment: Do We Know What Works?](#)" *Environmental Science & Technology* 33, no. 16 (August 1, 1999): 2685–92.
- Reed, Mark S., Steven Vella, Edward Challies, Joris de Vente, Lynne Frewer, Daniela Hohenwallner-Ries, Tobias Huber, et al. n.d. "[A Theory of Participation: What Makes](#)

[Stakeholder and Public Engagement in Environmental Management Work?](#) *Restoration Ecology* 26 (S1): S7–17.

#### 4. Community Based Conservation (Wk4)

- Western, David, and R Michael Wright. 1994. "[The Background to Community-Based Conservation.](#)" In *Natural Connections Perspective in Community-Based Conservation*.
- Brosius, J. Peter, Anna Lowenhaupt Tsing, and Charles Zerner. 1998. "[Representing Communities: Histories and Politics of Community-based Natural Resource Management.](#)" *Society & Natural Resources* 11 (2): 157–68.
- Agrawal, Arun, and Clark C Gibson. 1999. "[Enchantment and Disenchantment: The Role of Community in Natural Resource Conservation.](#)" *World Development* 27 (4): 629–649.
- Tidball, Keith G., Sara Metcalf, Mark Bain, and Thomas Elmqvist. 2018. "[Community-Led Reforestation: Cultivating the Potential of Virtuous Cycles to Confer Resilience in Disaster Disrupted Social–Ecological Systems.](#)" *Sustainability Science* 13 (3): 797–813.

#### 5. Local & Traditional Ecological Knowledge (Wk5)

- Berkes, Fikret, Johan Colding, and Carl Folke. 2002. "[Social-Ecological Learning and Adaptation.](#)" In *Navigating Social–Ecological Systems*, edited by Fikret Berkes, Johan Colding, and Carl Folke, 187–209. Cambridge: Cambridge University Press.
- Reed, M. S., A. J. Dougill, and M. J. Taylor. 2007. "[Integrating Local and Scientific Knowledge for Adaptation to Land Degradation: Kalahari Rangeland Management Options.](#)" *Land Degradation & Development* 18 (3): 249–68.
- Lane, Marcus B., and Tony Corbett. 2005. "[The Tyranny of Localism: Indigenous Participation in Community-Based Environmental Management.](#)" *Journal of Environmental Policy & Planning* 7 (2): 141–59.
- Long, Jonathan W., and Frank K. Lake. 2018. "[Escaping Social-Ecological Traps through Tribal Stewardship on National Forest Lands in the Pacific Northwest](#), United States of America." *Ecology and Society* 23 (2).

### Implementation (Working w/people)

### BOOK WEEK

(Groups [pick a book/monograph](#) to read and report on to the class.)

#### 6. Representation and Recruitment (Wk6)

- Reference Manual: Shindler, Bruce, Ryan Gordon, Sarah McCaffrey, and Eric Toman. n.d. [“Collaborating for Healthy Forests and Communities: A Guide for Building Partnerships Among Diverse Interests.”](#) (Group 1)
- Reed, Mark S., Anil Graves, Norman Dandy, Helena Posthumus, Klaus Hubacek, Joe Morris, Christina Prell, Claire H. Quinn, and Lindsay C. Stringer. 2009. [“Who’s in and Why? A Typology of Stakeholder Analysis Methods for Natural Resource Management.”](#) *Journal of Environmental Management* 90 (5): 1933–49. (Group 2)
- Colvin, R.M., G. Bradd Witt, and Justine Lacey. 2016. [“Approaches to Identifying Stakeholders in Environmental Management: Insights from Practitioners to Go beyond the ‘Usual Suspects.’”](#) *Land Use Policy* 52 (March): 266–76. (Group 3)
- Schelhas, John, Sarah Hitchner, Cassandra Johnson Gaither, Rory Fraser, Viniece Jennings, and Amadou Diop. 2017. [“Engaging African American Landowners in Sustainable Forest Management.”](#) *Journal of Forestry* 115 (1): 26–33. (Group 4)

## 7. ~~Learning from Stakeholders (Wk7)~~ (Replaced w/short videos from Dr. McKinnon)

- ~~Weiss, Robert Stuart. Learning from Strangers: The Art and Method of Qualitative Interview Studies. New York; Toronto; New York: Free Press, 1994. (Group 1)~~
  - ~~Chapter 3: Preparation for Interviewing~~
  - ~~Chapter 4: Interviewing. P. 39–120.~~
- ~~Kilbane, Simon, Richard Weller, and Richard Hobbs. 2017. “Beyond Ecological Modelling: Ground-Truthing Connectivity Conservation Networks through a Design Charrette in Western Australia.” *Landscape and Urban Planning*, May. (Group 2)~~
  - ~~Lennertz, Bill, Aarin Lutzenhiser, and Tamara Failor. 2008. “An Introduction to Charrettes,” no. 71: 3.~~
- ~~Meeting facilitation~~
  - ~~Participant Observation (Group 3)~~
  - ~~Meeting facilitation (Group 4)~~

## 8. Participatory Mapping and PGIS (Wk8)

- **Reference Manual:** Coastal Services Center (U.S.). [“Stakeholder Engagement Strategies for Participatory Mapping.”](#) Charleston, SC: National Oceanic and Atmospheric Administration, Coastal Services Center, 2009.
- McCall, MK, and PA Minang. [“Assessing Participatory GIS for Community-Based Natural Resource Management: Claiming Community Forests in Cameroon.”](#) *GEOGRAPHICAL JOURNAL* 171 (December 2005): 340–56.
- Cronkleton, Peter, Marco Albornoz, Grenville Barnes, Kristen Evans, and Wil de Jong. 2010. [“Social Geomatics: Participatory Forest Mapping to Mediate Resource Conflict in the Bolivian Amazon.”](#) *Human Ecology* 38 (1): 65–76.
- Wright, Dawn J., Sally L. Duncan, and Denise Lach. 2009. [“Social Power and GIS Technology: A Review and Assessment of Approaches for Natural Resource Management.”](#) *Annals of the Association of American Geographers* 99 (2): 254–72.

## 9. Citizen Science & Civic Ecology (Wk9)

- Dickinson, Janis L., Benjamin Zuckerberg, and David N. Bonter. "[Citizen Science as an Ecological Research Tool: Challenges and Benefits](#)." *Annual Review of Ecology, Evolution, and Systematics* 41, no. 1 (2010): 149–72.
- Kobori, Hiromi, Janis L. Dickinson, Izumi Washitani, Ryo Sakurai, Tatsuya Amano, Naoya Komatsu, Wataru Kitamura, et al. "[Citizen Science: A New Approach to Advance Ecology, Education, and Conservation](#)." *Ecological Research* 31, no. 1 (January 1, 2016): 1–19.
- McKinley, Duncan C, Abraham J Miller-Rushing, Heidi L Ballard, Rick Bonney, Hutch Brown, Daniel M Evans, Rebecca A French, et al. "[Investing in Citizen Science Can Improve Natural Resource Management and Environmental Protection](#)," 2015, 28.
- Krasny, Marianne E., Philip Silva, Cornelia Barr, Zahra Golshani, Eunju Lee, Robert Ligas, Eve Mosher, and Andrea Reynosa. 2015. "[Civic Ecology Practices: Insights from Practice Theory](#)." *Ecology and Society* 20 (2): art12.

## People, Processes and Tools

### 10. Dealing with Conflict (Wk10)

- Madden, Francine, and Brian McQuinn. 2014. "[Conservation's Blind Spot: The Case for Conflict Transformation in Wildlife Conservation](#)." *Biological Conservation* 178 (October): 97–106.
- Correia, David. 2007. "[The Sustained Yield Forest Management Act and the Roots of Environmental Conflict in Northern New Mexico](#)." *Geoforum* 38 (5): 1040–51.
- Hurley, Patrick T., and Peter A. Walker. 2004. "[Whose Vision? Conspiracy Theory and Land-Use Planning in Nevada County, California](#)." *Environment and Planning A* 36: 1529–47.
- Stern, Marc J., and Kimberly J. Coleman. 2015. "[The Multidimensionality of Trust: Applications in Collaborative Natural Resource Management](#)." *Society & Natural Resources* 28 (2): 117–32.

### 11. Evaluation (Wk11)

- Rowe, Gene, and Lynn J. Frewer. "[Public Participation Methods: A Framework for Evaluation](#)." *Science, Technology & Human Values* 25, no. 1 (January 1, 2000): 3–29.
- CONLEY, ALEXANDER, and MARGARET A. MOOTE. "[Evaluating Collaborative Natural Resource Management](#)." *Society & Natural Resources* 16, no. 5 (May 1, 2003): 371–86.
- Holifield, Ryan, and Kathleen C. Williams. 2019. "[Recruiting, Integrating, and Sustaining Stakeholder Participation in Environmental Management: A Case Study from the Great Lakes Areas of Concern](#)." *Journal of Environmental Management* 230 (January): 422–33.
- Genskow, Kenneth D. "[Catalyzing Collaboration: Wisconsin's Agency-Initiated Basin Partnerships](#)." *Environmental Management* 43, no. 3 (March 2009): 411–24.