

# Human Ecology: Rivers

2022

Faculty of Liberal Arts & Graduate Program in Global Studies

Sophia University

**Instructors:** Takeshi Ito  
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## Thematic Topics

### Topic 1: Engineering Nature and the Tragedy of the Commons (Ito)

Blackbourn, D. 2006. *The Conquest of Nature: Water, Landscape, and the Making of Modern Germany*. New York: W.W. Norton: 3-19.

Hardin, Garrett. 1974. "Living on a Lifeboat." *BioScience* 24(10): 561-568.

Feeny, D. et al. 1990. "The Tragedy of the Commons: Twenty-Two Years Later." *Human Ecology* 18(1), pp. 1-19.

### Suggested:

Scott, James. 1998. *Seeing Like a State: How Certain Schemes to Improve the Human Condition Have Failed*. New Haven: Yale University Press: Ch. 1 Nature and Space (pp. 11-52).

### Further references:

McPhee, John. 1990. *The Control of Nature*. New York: Farrar, Straus, and Giroux.

Ostrom, Elinor, Joanna Burger, Christopher B. Field, Richard B. Norgaard and David Policansky. 1999. "Revisiting the Commons: Local Lessons, Global Challenges." *Science* 284: 278-282.

Berkes, F. et al. 1989. "The Benefits of the Commons." *Nature* 340, pp. 91-93

Berkes, F. 2002. "Cross-Scale Institutional Linkages: Perspectives from the Bottom Up." in Ostrom et al. *The Drama of the Commons*. Washington, D.C.: National Academy Press: 293-321.

McCay, Bonnie and Svein Jentoft. 1998. "Market or Community Failure? Critical Perspectives on Common Property Research." *Human Organization* 57(1): 21-29.

Agrawal, A. and Gibson, C.C. 1999. "Enchantment and Disenchantment: The Role of Community in Natural Resource Conservation." *World Development* 27(4), pp. 629-649.

Blaikie, Piers. 2006. "Is Small Really Beautiful? Community-based Natural Resource Management in Malawi and Botswana." *World Development* 34(11), pp. 1942-1957.

### Topic 2: Environmental Ethics and the Economy of Limits (Watanabe)

Watch [this video on the book, Sand County Almanac \(Youtube, About 10 minutes\)](#)

Aldo Leopold, "Marshland Elegy" (95-100), "Thinking Like a Mountain" (129-132), "The Land Ethic" (last chapter) in *A Sand County Almanac*.

Watch ["How Wolves Change Rivers" \(George Monbiot\) on Youtube](#) (watch this after reading Leopold's "Thinking Like a Mountain")

Orr, David. "What is Education for?" (237-245) in *Hope is an Imperative: The Essential David Orr*

Kate Raworth, "About Doughnut Economics"

Watch her TED Talk "Doughnut Economics" ([on her homepage](#))

Then watch these series of animations & think about the questions posed on this page from "[Doughnut Economics Action Lab](#)"

Suggested:

Kenneth Boulding, "The Economics of the Coming Spaceship Earth"

Rockström, J., Steffen, W., Noone, K., Persson, Å., Chapin, F. S., Lambin, E. F. et al. (2009).

A safe operating space for humanity. *Nature*, 461(7263), 472-475.

<https://doi.org/10.1038/461472a>

Further references:

Attfield, Robin. 2018. *Environmental Ethics: A Very Short Introduction*

Stone-Jovicich, Samantha, "Probing the interfaces between the social sciences and social-ecological resilience: insights from integrative and hybrid perspectives in the social sciences" *Ecology and Society* 20(2): 25. <http://dx.doi.org/10.5751/ES-07347-200225>

Richard White. 1996. *The Organic Machine: The Remaking of the Columbia River*. (Hill & Wang)

Freeman, Scott. 2018. *Saving Tarboo Creek: One Family's Quest to Heal the Land*. Portland: Timber Press.

**Topic 3: Social-Ecological Systems (SES): Biodiversity, Resilience, and the Sustainability of Society and Nature (Ito)**

What is biodiversity? Video: [https://youtu.be/GK\\_vRtHJZu4](https://youtu.be/GK_vRtHJZu4)

Levin, S.A. 1999. *Fragile Dominion: Complexity and the Commons*. Cambridge, MA: Helix Books: 1-15.

Fischer, J. Gardner, T.A., Bennett, E.M., Balvanera, P., Biggs, R., Carpenter, S., Daw, T., Folke, C., Hill, R. Hughes, T.P., Luthe, T., Maass, M., Meacham, M., Nordstrom, A.V., Peterson, G., Queiroz, C., Seppelt, R., Spierenburg, M., Tenhunen, J., 2015. "Advancing sustainability through mainstreaming a social-ecological systems perspective." *Current Opinion in Environmental Sustainability* 14, 144-149.

Intergovernmental Panel on Climate Change (IPCC). 2022. *Climate Change 2022: Impacts, Adaptation and Vulnerability Summary for Policymakers*.

Suggested:

Folke, Carl et al. 2016. "Social-Ecological Resilience and Biosphere-Based Sustainability Science." *Ecology and Society*, 21(3): 41.

Further references:

Watts, M. and R. Peet. 2004. "Liberating Political Ecology." In R. Peet and M. Watts eds. *Liberation Ecologies: Environment, Development, Social Movements*. New York: Routledge.

Berkes, F. and H. Ross. 2013. "Community Resilience: Toward an Integrated Approach." *Society and Natural Resources* 26: 5-20.

Ostrom, E. and M.D. McGinnis. 2014. "Social-Ecological System Framework: Initial Changes and Continuing Challenges." *Ecology and Society* 19(2): 30.

Berkes, F., and C. Folke, eds. 1998. *Linking Social and Ecological Systems: Management Practices and Social Mechanisms for Building Resilience*. Cambridge, Eng.: Cambridge University Press.

**Topic 4: From Wasteland to Wetland: Political Ecology of Migratory Birds, Farmers, and Land-Water Use (Watanabe)**

Wilson, R. M. (2011). *Seeking Refuge: Birds and Landscapes of the Pacific Flyway* University of Washington Press. (preface by Cronon, introduction, chs. 1, 2, 5, epilogue. Graduate student: please read all)

Further references:

McLean, S. (2011). Black Goo: Forceful Encounters with Matter in Europe's Muddy Margins. *Cultural Anthropology* 26, 589-619.

Gruppuso P. (2018) Edenic Views in Wetland Conservation: Nature and Agriculture in the Fogliano Area, Italy. *Conservation and Society* 16:397-408.

<http://www.conservationandsociety.org/text.asp?2018/16/4/397/235337>

Huijbens, Edward & Páisson, Gisli. (2009). The bog in our brain and bowels: Social attitudes to the cartography of Icelandic wetlands. *Environment and Planning D Society and Space*. 27. 296-316. <https://doi.org/10.1068/d9508>.

Emily T. Yeh, From Wasteland to Wetland? Nature and Nation in China's Tibet, *Environmental History*, Volume 14, Issue 1, January 2009, Pages 103-137,

<https://doi.org/10.1093/enhis/14.1.103>

Scaramelli, C. (2018). "THE WETLAND IS DISAPPEARING": CONSERVATION AND CARE ON TURKEY'S KIZILIRMAK DELTA. *International Journal of Middle East Studies*, 50(3), 405-425. <https://www.cambridge.org/core/journals/international-journal-of-middle-east-studies/article/wetland-is-disappearing-conservation-and-care-on-turkeys-kizilirmak-delta/3FDD876B6A3309AFD548F72D5F7F614C>

**Topic 5: Multispecies Entanglements as World-Making (Ito)**

Scott, J. 2011. "The Late Neolithic Multispecies Resettlement Camp." *The Tanner Lectures on Human Values* pp. 185-198.

Saladino, D. 2021. *Eating to Extinction*. Introduction (1-18).

Haraway, D. 2016. *Staying with the Trouble*. Duke. Chapter 4 (Making Kin), pp. 99-103.

Suggested (graduate students): NONE

Further references:

Tsing, A. 2015. *The Mushroom at the End of the World*. Princeton.

Wohl, E. 2018. *Sustaining River Ecosystems and Water Resources*. Switzerland: Springer: 1-49.

Wohl, E. 2019. "How rivers can help in climate change." <https://blog.oup.com/2019/10/how-rivers-help-climate-change-resilience/>

**Topic 6: History of Indigeneity and Nature in Hokkaido (Watanabe)**

Walker, Brett L. 2006. *The Conquest of Ainu Lands: Ecology and Culture in Japanese Expansion, 1590-1800*. University of California Press, Introduction, chs. 3, 4, 5, 6 (Graduate students: please read all).

Further references:

Kayano, S. 1998. "Traditional Ainu Life," and "Kamuy Yukar", in *First Fish, First People: Salmon Tales of the Pacific Rim*. pp.23-37.

### Topic 7: Salmon as Keystone Species in SES (Ito)

Saladino, D. 2021. "Wild Atlantic Salmon." In *Eating to Extinction*. London: Jonathan Cape. pp.190-202.

Kayano. 1998. "Who Owns the Salmon?" Read pp. 41-45.

Reid AJ, Young N, Hinch SG, and Cooke SJ. 2022. Learning from Indigenous knowledge holders on the state and future of wild Pacific salmon. *FACETS* 7: 718–740. doi:10.1139/facets-2021-0089.

Swanson, H. 2018. "Landscapes, by comparison: Practices of Enacting Salmon in Hokkaido, Japan." IN *The World Multiple*. Omura, Otsuki, Satsuka, and Morita eds. London: Routledge, pp. 105-122.

Landscapes, by comparison

Practices of enacting salmon in Hokkaido, Japan

#### Suggested:

Lien, M. 2017. "Unruly Appetites: Salmon Domestication All the Way Down" In Tsing. et al. *Arts of Living on a Damaged Planet*. pp. 107-124.

#### Further references:

Clausen, Rebecca and Stefano B. Longo. 2012. "The Tragedy of the Commodity and the Farce of AquAdvantage Salmon." *Development and Change* 43(1): 229-251.

Swanson, Heather Anne. 2015. "Shadow ecologies of conservation: Co-production of salmon landscapes in Hokkaido, Japan, and southern Chile." *Geoforum* 61: 101-110.

Vidal, J. 2017. "Salmon farming in crisis: 'We are seeing a chemical arms race in the seas.'" *Guardian*

Vanden Heuvel and Julius. 2020. "Snake River Dams in Hot Water." *Seattle Times* June 29, <https://www.seattletimes.com/opinion/snake-river-dams-in-hot-water/>

Salmon Migration Game <https://americanindian.si.edu/nk360/pnw-history-culture/pnw1-salmon/index.html?instructions=false>

#### Video

*Artifishal: The Fight to Save Wild Salmon* (2019) Watch the full movie on Youtube:

<https://youtu.be/XdNJ0JAwT7I>

### Topic 8: Human Economy and Animal Ecology in the North Pacific (Watanabe)

Coen, Ross. 2013 "Owning the Ocean: Environment, Race, and Identity in the Bristol Bay, Alaska, Salmon Fishery, 1930-1938" in *The Pacific Northwest Quarterly* 104(3): 133-150. <https://www.jstor.org/stable/24628777>

Jones, Ryan Tucker. "Running Into Whales: The History of the North Pacific From Below the Waves." *The American Historical Review* 118.2 (2013): 349-77.

<https://academic.oup.com/ahr/article/118/2/349/42096>

Suggested: (extra reading for graduate student)

Demuth, Bathsheba. "The Walrus and the Bureaucrat: Energy, Ecology, and Making the State in the Russian and American Arctic, 1870-1950." *The American Historical Review* 124.2 (2019): 483-510. <https://academic.oup.com/ahr/article/124/2/483/5426289>

Further references:

Finley, Carmel. "The Social Construction of Fishing, 1949." *Ecology and Society* 14.1 (2009)

Akaha, Tsuneo. "From Conflict to Cooperation: Fishery Relations in the Sea of Japan." *Pac. Rim. L. & Pol'y J.* 1 (1992): 225.  
<https://digitalcommons.law.uw.edu/cgi/viewcontent.cgi?article=1010&context=wilj>

Howell, David L. 1995. *Capitalism From Within: Economy, Society, and the State in a Japanese Fishery*. University of California Press.