



Elizabeth Selig, Ph.D.

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Bio

BIO

Elizabeth Selig works at the intersection of environmental and social sustainability in marine ecosystems. Her current research focuses on understanding social-ecological feedbacks in ocean health, marine resource conflicts, and patterns in illegal, unreported and unregulated fishing and labor abuses in fisheries. Selig received her Ph.D. in ecology at the University of North Carolina – Chapel Hill. Her dissertation focused on how global climate change may affect coral reef health and management strategies that can help mitigate coral loss. She has more than ten years of experience working with international non-governmental organizations including Conservation International, where she was the Senior Director of Marine Science. She has also worked at the Smithsonian Institution and the World Resources Institute.

Selig is part of the core team behind the Blue Food Assessment, an international scientific assessment of the contribution of aquatic foods to human nutrition and environmental impacts, with a focus on equity and environmental vulnerability of production. For the last several years, she has also been a part of the Seafood Business for Ocean Stewardship (SeaBOS) science team. She was a lead author on the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES) Global Assessment and is part of the International Science Advisory Council for the Stockholm Resilience Centre.

LINKS

- Center for Ocean Solutions: <https://oceansolutions.stanford.edu/>
- Seafood Business for Ocean Stewardship (SeaBOS): <https://seabos.org/>

Publications

PUBLICATIONS

- **Nutrition-sensitive climate risk across food production systems** *ENVIRONMENTAL RESEARCH LETTERS*
Tigchelaar, M., Selig, E. R., Sarhadi, A., Bruce, J., Allison, E. H., Battista, W., Fanzo, J., Kleisner, K. M., Mehrabi, Z., Naylor, R. L., Schmidhuber, J., Thilsted, S. H.
2025; 20 (1)
- **Drivers of conflict and resilience in shifting transboundary fisheries** *MARINE POLICY*
Vogel, J. M., Longo, C., Spijkers, J., Palacios-Abrantes, J., Mason, J., Wabnitz, C. C. C., Cheung, W., Sumaila, U., Munro, G., Glaser, S., Bell, J., Tian, Y., Shackell, et al
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- **Triple exposure: Reducing negative impacts of climate change, blue growth, and conservation on coastal communities** *ONE EARTH*

Gill, D. A., Blythe, J., Bennett, N., Evans, L., Brown, K., Turner, R. A., Baggio, J. A., Baker, D., Ban, N. C., Brun, V., Claudet, J., Darling, E., Di Franco, et al
2023; 6 (2): 118-130

- **Comparing spatial patterns of marine vessels between vessel-tracking data and satellite imagery** *FRONTIERS IN MARINE SCIENCE*

Nakayama, S., Dong, W., Corroero, R. G. G., Selig, E. R. R., Wabnitz, C. C. C., Hastie, T. J. J., Leape, J., Yeung, S., Micheli, F.
2023; 9

- **Towards a model of port-based resilience against fisher labour exploitation** *MARINE POLICY*

Phelan, K., Gardner, A., Selig, E. R., Sparks, J.
2022; 142

- **Revealing global risks of labor abuse and illegal, unreported, and unregulated fishing.** *Nature communications*

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- **Mapping global human dependence on marine ecosystems** *CONSERVATION LETTERS*

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2019; 12 (2)