

CHIEF, ECOSYSTEM DYNAMICS AND ASSESSMENT BRANCH

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Education_

2011 Ph.D. Marine Biology Texas A&M University

2008 M.S. Biology Texas A&M University – Corpus Christi

2006 B.A. Biology Hendrix College

Employment history _____

2018–present Chief, Ecosystem Dynamics and Assessment Branch – Northeast Fisheries Science Center

2014–2018 **Professional Officer**, Advice Department – International Council for the Exploration of the Sea (ICES)

2011–2014 **Postdoctoral Researcher**, Integrated Statistics, Inc & Northeast Fisheries Science Center

OTHER POSITIONS

2022–present **Adjunct faculty**, Massachusetts Maritime Academy 2019–present **Associate Editor**, *Frontiers in Marine Science*

2017–2017 **Stock Assessment Consultant**, United Nations Food and Agriculture Organization (FAO)

Publications

PHD THESIS

1. Large, S. I. (2011). *Biogeographic patterns, predator identity, and chemical signals influence the occurrence and magnitude of non-lethal predator effects* [PhD thesis]. Texas A&M University; Texas A&M University.

SELECTED RESEARCH PAPERS

- 1. Caracappa, J. C., Beet, A., Gaichas, S., Gamble, R. J., Hyde, K. J., Large, S. I., Morse, R. E., Stock, C. A., & Saba, V. S. (2022). A northeast united states atlantis marine ecosystem model with ocean reanalysis and ocean color forcing. *Ecological Modelling*, 471, 110038.
- 2. Friedland, K. D., Langan, J. A., Large, S. I., Selden, R. L., Link, J. S., Watson, R. A., & Collie, J. S. (2020). Changes in higher trophic level productivity, diversity and niche space in a rapidly warming continental shelf ecosystem. *Science of the Total Environment*, 704, 135270.
- 3. Bastille, K., Hardison, S., deWitt, L., Brown, J., Samhouri, J., Gaichas, S., Lucey, S., Kearney, K., Best, B., Cross, S., et al. (2020). Improving the IEA approach using principles of open data science. *Coastal Management*, 49(1), 72–89.
- 4. Samhouri, J. F., Andrews, K. S., Fay, G., Harvey, C. J., Hazen, E. L., Hennessey, S. M., Holsman, K., Hunsicker, M. E., Large, S. I., Marshall, K. N., et al. (2017). Defining ecosystem thresholds for human activities and environmental pressures in the california current. *Ecosphere*, 8(6), e01860.
- 5. Tam, J. C., Link, J. S., Rossberg, A. G., Rogers, S. I., Levin, P. S., Rochet, M.-J., Bundy, A., Belgrano, A., Libralato, S., Tomczak, M., et al. (2017). Towards ecosystem-based management: Identifying operational food-web indicators for marine ecosystems. *ICES Journal of Marine Science*, 74(7), 2040–2052.
- 6. Tam, J. C., Link, J. S., Large, S. I., Andrews, K., Friedland, K. D., Gove, J., Hazen, E., Holsman, K., Karnauskas, M., Samhouri, J. F., et al. (2017). Comparing apples to oranges: Common trends and thresholds in anthropogenic and environmental pressures across multiple marine ecosystems. *Frontiers in Marine Science*, *4*, 282.
- 7. Coro, G., Large, S., Magliozzi, C., & Pagano, P. (2016). Analysing and forecasting fisheries time series: Purse seine in indian ocean as a case study. *ICES Journal of Marine Science*, 73(10), 2552–2571.
- 8. Tam, J., Link, J., Large, S., Bogstad, B., Bundy, A., Cook, A., Dingsør, G., Dolgov, A., Howell, D., Kempf, A., et al. (2016). A trans-atlantic examination of haddock melanogrammus aeglefinus food habits. *Journal of Fish Biology*, 88(6), 2203–2218.
- 9. Friedland, K. D., Record, N. R., Asch, R. G., Kristiansen, T., Saba, V. S., Drinkwater, K. F., Henson, S., Leaf, R. T., Morse, R. E., Johns, D. G., et al. (2016). Seasonal phytoplankton blooms in the north atlantic linked to the overwintering strategies of copepodsSeasonal plankton blooms and zooplankton that diapause. *Elementa: Science of the Anthropocene*, 4.
- 10. Coll, M., Shannon, L., Kleisner, K. M., Juan-Jordá, M., Bundy, A., Akoglu, A., Banaru, D., Boldt, J. L., Borges, M., Cook, A., et al. (2016). Ecological indicators to capture the effects of fishing on biodiversity and conservation status of marine ecosystems. *Ecological Indicators*, 60, 947–962.

- 11. Friedland, K. D., Leaf, R. T., Kane, J., Tommasi, D., Asch, R. G., Rebuck, N., Ji, R., Large, S. I., Stock, C., & Saba, V. S. (2015). Spring bloom dynamics and zooplankton biomass response on the US northeast continental shelf. *Continental Shelf Research*, 102, 47–61.
- 12. Friedland, K. D., Leaf, R. T., Kristiansen, T., & Large, S. I. (2015). Layered effects of parental condition and larval survival on the recruitment of neighboring haddock stocks. *Canadian Journal of Fisheries and Aquatic Sciences*, 72(11), 1672–1681.
- 13. Kleisner, K. M., Coll, M., Lynam, C. P., Bundy, A., Shannon, L., Shin, Y.-J., Boldt, J. L., Diallo, I., Fox, C., Gascuel, D., et al. (2015). Evaluating changes in marine communities that provide ecosystem services through comparative assessments of community indicators. *Ecosystem Services*, *16*, 413–429.
- 14. Large, S. I., Fay, G., Friedland, K. D., & Link, J. S. (2015). Critical points in ecosystem responses to fishing and environmental pressures. *Marine Ecology Progress Series*, *521*, 1–17.
- 15. Large, S. I., Fay, G., Friedland, K. D., & Link, J. S. (2015). Quantifying patterns of change in marine ecosystem response to multiple pressures. *PLoS One*.

SOFTWARE (R PACKAGES)

 Large, S. (2019). Fedregs: Text analysis of the US code of federal regulations (Version 1.0.0) [Computer software]. https://CRAN. R-project.org/package=fedregs

Presentations ___

INVITED TALKS

- Invited speaker, *Transitioning basic research into applied fisheries science and management*, Dauphin Island Sea Lab, Dauphin Island, November 2022.
- Workshop leader, Delineating the Issues of Climate Change and Impacts to Marine Ecosystems: Bridging the Gap Between Research, Assessment, Policy and Management, IMBER-ClimEco4, Shanghai, June 2014.
- Workshop leader, *Introduction to Generalized Additive Modeling*, RARGOM–Community Learning Series, Woods Hole, April 2013
- Invited speaker, Quantifying trends and thresholds in responses of ecological indicators to the combined effects of fishing and environmental pressures, Colorado State University, Fort Collins, March 2013
- Invited speaker, Delineating ecosystem overfishing via analysis of ecosystem indicator inflection points, 2nd ICES/PICES conference for early career scientists. Mallorca, April 2012

Awards_

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	2007–2010	Addison E. Verril Award for Marine Biology	\$13,600	
	2009–2009	TAMU-CC Parents Council Travel Grant	\$1,000	
	2011–2011	TAMU-CC ELITE Travel Grant	\$2,000	
	2012–2012	ICES/PICES Early Career Scientist Travel Award	\$500	
	2020–2020	NEFSC Deputy's Award	_	

Grants

2020–2022 SI Large. "A framework for incorporating ecosystem and socioeconomic information \$260,000 into the fish advice process". Funding from Magnuson-Stevens Act Implementation Funds