

Sarah Gaichas

Research Fishery Biologist

Education

2000 - 2006 **PhD**, *University of Washington, Seattle.*

1994 - 1997 **M.S.**, *College of William and Mary, School of Marine Science, Gloucester Point.*

1986 - 1991 **B.A.**, *Swarthmore College, Swarthmore.*

Publications

1. Weiskopf, S, M Rubenstein, L Crozier, S Gaichas, R Griffis, and ... (2020). Climate change effects on biodiversity, ecosystems, ecosystem services, and natural resource management in the United States. *Science of The Total Environment*.
2. Link, J, G Huse, S Gaichas, and A Marshak (2020). Changing how we approach fisheries: A first attempt at an operational framework for ecosystem approaches to fisheries management. *Fish and Fisheries*.
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4. Deroba, J, S Gaichas, M Lee, R Feeney, D Boelke, and B Irwin (2019). The dream and the reality: meeting decision-making time frames while incorporating ecosystem and economic models into management strategy evaluation, *Canadian Journal of Fisheries and Aquatic Sciences*.
5. Feeney, R, D Boelke, J Deroba, S Gaichas, B Irwin, and M Lee (2019). Integrating management strategy evaluation into fisheries management: advancing best practices for stakeholder inclusion based on an MSE for Northeast US Atlantic herring. *Canadian Journal of Fisheries and Aquatic Sciences*.
6. Goethel, D, S Lucey, A Berger, S Gaichas, M Karp, P Lynch, and ... (2019). Closing the feedback loop: on stakeholder participation in management strategy evaluation. *Canadian Journal of Fisheries and Aquatic Sciences*.
7. Townsend, H, C Harvey, Y deReynier, D Davis, S Zador, S Gaichas, and ... (2019). Progress on Implementing Ecosystem-Based Fisheries Management in the US Through the Use of Ecosystem Models and Analysis. *Frontiers in Marine Science*.
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9. Gaichas, S, G DePiper, R Seagraves, B Muffley, M Colburn, and A Loftus (2019). Addendum: Implementing Ecosystem Approaches to Fishery Management: Risk Assessment in the US Mid-Atlantic. *Frontiers in Marine Science*.

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12. Wildermuth, R, G Fay, and S Gaichas (2018). Structural uncertainty in qualitative models for ecosystem-based management of Georges Bank. *Canadian Journal of Fisheries and Aquatic Sciences*.
13. Tommasi, D, C Stock, A Hobday, R Methot, I Kaplan, J Eveson, and ... (2017). Managing living marine resources in a dynamic environment: the role of seasonal to decadal climate forecasts. *Progress in Oceanography*.
14. Zador, S, K Holsman, K Aydin, and S Gaichas (2017). Ecosystem considerations in Alaska: the value of qualitative assessments. *ICES Journal of Marine Science*.
15. Holsman, K, J Samhour, G Cook, E Hazen, E Olsen, M Dillard, and ... (2017). An ecosystem-based approach to marine risk assessment. *Ecosystem Health and Sustainability*.
16. DePiper, G, S Gaichas, S Lucey, PP da Silva, M Anderson, and ... (2017). Operationalizing integrated ecosystem assessments within a multidisciplinary team: lessons learned from a worked example. *ICES Journal of Marine Science*.
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21. Weijerman, M, J Link, E Fulton, E Olsen, H Townsend, S Gaichas, and ... (2016). Atlantis ecosystem model summit: report from a workshop. *Ecological Modelling*.
22. Smith, L, R Gamble, S Gaichas, and J Link (2015). Simulations to evaluate management trade-offs among marine mammal consumption needs, commercial fishing fleets and finfish biomass. *Marine Ecology Progress Series*.
23. Gaichas, S, K Aydin, and R Francis (2015). Wasp waist or beer belly? Modeling food web structure and energetic control in Alaskan marine ecosystems, with implications for fishing and environmental forcing. *Progress in oceanography*.