

## DR. CAMERON H. AINSWORTH

### *General*

Professor, Fisheries and Ecosystem science  
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### Education

- Ph.D. 2006. University of British Columbia. Fisheries Centre. Department of Resource Management and Environmental Studies. Title of dissertation: **Strategic Marine Ecosystem Restoration in Northern British Columbia** (Advisor: Professor Tony J. Pitcher) (Nov. 22, 2006)
- B.S. 1997. University of British Columbia. Department of Zoology. Major: Marine Biology (May 28, 1997)

### Work history

- June 2024 – present. Professor, College of Marine Science. University of South Florida.
- June 2017-May 2024. Associate Professor, College of Marine Science. University of South Florida
- April 2011-June 2017. Assistant Professor, College of Marine Science. University of South Florida.
- November 2007-March 2011. Post-doctoral Fellow. Northwest Fisheries Science Center (NOAA). Seattle, WA. Supervisor: Dr. Phil S. Levin
- April 2006-October 2007. Post-doctoral Fellow. University of British Columbia Fisheries Centre. Vancouver, BC. Supervisor: Dr. Tony J. Pitcher
- December 2005-April 2006. Graduate Student Researcher. University of British Columbia Fisheries Centre. Vancouver, BC. Supervisor: Dr. Tony J. Pitcher
- August 2000 - May 2001. Research Assistant. Sea Around Us Project. University of British Columbia Fisheries Centre. Vancouver, BC. Supervisor: Dr. Daniel Pauly

### Other appointments

- 2018-2021. Ecosystem Science and Statistical Committee (member) of the Gulf of Mexico Fisheries Management Council.
- Alfred P. Sloan Research Fellow 2013-2014.
- September 2011 – 2018. Adjunct Faculty, Rosenstiel School of Marine and Atmospheric Science. University of Miami.
- June 2011-2013. Associate Faculty, Fisheries Centre. University of British Columbia.

- November 2007-June 2011. Adjunct Professor, Fisheries Centre. University of British Columbia.
- American Association for the Advancement of Science, Member
- American Fisheries Society, Member

## Recognition

- Stanford University List Top 2% of Scientists Worldwide (2021, 2022)
- (Nominated) University of Miami Rosenstiel Award (2016)
- Alfred P. Sloan Fellowship (2013-2014) for early-career scientists.
- Outstanding Faculty Award (2014), University of South Florida

## Publications

### Peer-reviewed articles

H-index 36

Total citations to my work: 5379

\*Student or staff as lead author

1. de Mutsert, K., Coll, M., Steenbeek, J., Ainsworth, C., Buszowski, J., Chagaris, D., Christensen, V., Heymans, S.J.J., Lewis, K.A., Libralato, S., Oldford, G., Piroddi, C., Romagnoni, G., Serpetti, N., Spence, M.A., Walters, C. 2024. Advances in spatial temporal coastal and marine ecosystem modeling using Ecospace. In: Baird, Daniel and Elliott, Michael (eds.) Treatise on Estuarine and Coastal Science, 2nd Edition, vol. 5, pp. 122–169. Oxford: Elsevier.
2. \*Combs-Hintze, B., Hostetler, J., Calleson, C., Bassett, B., Ainsworth, C., Martin, J. 2024. Predicting the effects of boat speed on marine wildlife mortality using community-reported data, an example with the Florida manatee. *Ecological Solutions and Evidence*. In press.
3. \*Scott, R., Putman, N.F., Beyea, R.T., Repeta, H.C., Ainsworth, C.H. 2024 Modeling transport and feeding of juvenile Kemp's ridley turtles on the West Florida Shelf. *Ecological Modelling*. *Ecological Modelling*, 490, 110659.
4. Calhoun-Grosch, D., Ruzicka, J., Robinson, K.L., Wang, V.H., Sutton, T., Ainsworth, C., Hernandez, F. 2024. Simulating productivity changes of epipelagic, mesopelagic, and bathypelagic taxa using a depth-resolved, end-to-end food web model for the oceanic Gulf of Mexico. *Ecological Modelling*, 489(2024): 110623.
5. \*Vasbinder, K., Ainsworth, C., Liu, Y., Weisberg, R. 2023. Gulf of Mexico Larval Dispersal: Combining concurrent sampling, behavioral, and hydrodynamic data to inform end-to-end modeling efforts through a Lagrangian dispersal model. *Deep Sea Research Part II: Topical Studies in Oceanography. Special Issue of Physical Oceanography and Applications in Honor of Distinguished University Professor Robert H. Weisberg*. April 2023
6. \*Dornberger, L., Montagna, P., Ainsworth, C.H., 2023. Simulating oil driven abundance changes in benthic marine invertebrates using an ecosystem model. *Environmental Pollution*, 316(1): 120450.

7. \*Morzaria-Luna, H.N., Ainsworth, C.H., Scott, R.L., 2022. Impacts of deep-water spills on mesopelagic communities and implications for the wider pelagic food web. *Marine Ecology Progress Series*, 681: 37-51.
8. Ainsworth, C.H., Chassignet, E.P., French-McCay, D., Beegle-Krause, C.J., Berenshtein, I., Englehardt, J., Fiddaman, T., Huang, H., Huettel, M., Justic, D., Kourafalou, V.H., Liu, Y., Mauritzen, C., Murawski, S., Morey, S., Ozgokmen, T., Paris, C.B., Ruzicka, J., Sual, S., Shepherd, J., Socolofsky, S., Solo Gabriele, H., Sutton, T., Weisberg, R.H., Wilson, C., Zheng, L., Zheng, Y. 2021. Ten Years of Modeling the Deepwater Horizon Oil Spill. *Environmental Modeling and Software*, 142: 105070.
9. Solo-Gabriele, H.M., Fiddaman, T., Mauritzen, C., Ainsworth, C., Abramson, D.M., Berenshtein, I., Chassignet, E.P., Chen, S.S., Conmy, R.N., Court, C.D., Dewar, W.K., Farrington, J.W., Feldman, M.G., Ferguson, A., Fetherston-Resch, E., French-McCay, D., Hale, He, R., Kourafalou, V.H., Lee, K., Liu, Y., Masi, M., Maung-Douglass, E.S., Morey, S.L., Murawski, S.A., Paris, C.B., Perlin, N., Pulster, E.L., Quigg, A., Reed, D.J., Ruzicka, J., Sandifer, P.A., Shepherd, J.G., Singer, B.H., Stukel, M.R., Sutton, T.T., Weisberg, R.H., Wiesenburg, D., Wilson, C.A., Wilson, M., Wowk, K.M., Yanoff, C., Yoskowitz, D. 2021. Towards integrated modeling of the long-term impacts of oil spills. *Marine Policy* 131, 104554.
10. Halanych, K.M., Ainsworth, C.H., Cordes, E.E., Dodge, R.E., Huettle, M., Mendelssohn, I.A., Murawski, S.A., Paris-Limouzy, C.B., Schwing, P.T., Shaw, R.F., Sutton, T., Wilson, C.A., 2021. Effects of petroleum by-products and dispersants on ecosystems. *Oceanography* 34(1):152–163, <https://doi.org/10.5670/oceanog.2021.123>.
11. Westerholm, D.G., Ainsworth, C.H., Barker, C.H., Brewer, P.G., Farrington, J.W., Justic, D., Kourafalou, V.H., Murawski, S.A., Shepherd, J.G., Solo-Gabriele, H.M. 2021. Preparedness, planning, and advances in operational response. *Oceanography* 34(1):212–227, <https://doi.org/10.5670/oceanog.2021.127>.
12. Lewis, K.A., Rose, K.A., De Mutsert, K., Sable, S., Ainsworth, C., Brady, D., Townsend, H. 2021. Using multiple ecological models to inform environmental decision making. *Frontiers in Marine Science*, 24 March 2021 | <https://doi.org/10.3389/fmars.2021.625790>
13. Rohal, M., Ainsworth, C.H., Luper, B., Montagna, P.A., Paris-Limouzy, C., Suprenand, P.M., Yoskowitz, D., Perlin, N.2020. The Effect of the Deepwater Horizon Oil Spill on Ecosystem Services in the Northern Gulf of Mexico. *Environmental Modelling and Software*, 133: Nov 2020, 104793.
14. Natugonza, V., **Ainsworth, C.H.**, Sturludóttir, E., Musinguzi, L., Ogutu-Ohwayo, R., Tomasson, T., Nyamweya, C., Stefansson, G., 2020. Simulating trade-offs between socio-economic and conservation objectives for Lake Victoria (East Africa) using multispecies, multifleet ecosystem models. *Fisheries Research* 229: 105593.
15. \*Vasbinder, K. and **Ainsworth, C.H.**, 2020. Early life history growth in fish reflects consumption-mortality tradeoffs. *Fisheries Research* 227: 105538.
16. Grüss, A., Thorson, J., Carroll, G., Ng, E., Holsman, K., Aydin, K., Kotwicki, S., Morzaria-Luna, H., **Ainsworth, C.H.**, Thompson, K. 2020. Spatio-temporal analyses of marine predator diets from data-rich and data-limited systems. *Fish and Fisheries*, 21(23).
17. Natugonza, V., **Ainsworth, C.H.**, Sturludóttir, E., Musinguzi, L., Ogutu-Ohwayo, R., Tomasson, T., Nyamweya, C., Stefansson, G., 2020. Ecosystem modelling of data-

- limited fisheries: How reliable are Ecopath with Ecosim models without historical time series fitting? *Journal of Great Lakes Research*, 46(2): 414-428.
18. Perryman, H.A., Tarnecki, J.H., Grüss, A., Babcock, E.A., Sagarese, S.R., **Ainsworth, C.H.** and Gray DiLeone, A.H. 2020. A revised diet matrix to improve the parameterization of a West Florida Shelf Ecopath model for understanding harmful algal bloom impacts. *Ecological Modelling*, 416: 1-18.
  19. Surma, S., Christensen, V., Kumar, R., **Ainsworth, C.H.**, Pitcher, T.J. 2019. High resolution models reveal structure and function of a Northeast Pacific ecosystem. *Frontiers in Marine Science*, 6: 625.
  20. \*Gray, A.M. and **Ainsworth, C.H.** 2019. Effects of *Karenia brevis* harmful algal blooms on fish community structure on the West Florida Shelf. *Ecological Modeling*, 392: 250-267.
  21. Natugonza, V., **Ainsworth, C.H.**, Sturludóttir, E., Musinguzi, L., Ogutu-Ohwayo, R., Tomasson, T., Nyamweya, C., Stefansson, G., 2019. Ecosystem models of Lake Victoria (East Africa): can Ecopath with Ecosim and Atlantis predict similar policy outcomes? *Journal of Great Lakes Research*, 45(6): 1260-1273.  
<https://doi.org/10.1016/j.jglr.2019.09.018>
  22. Grüss A.M., Drexler M.D., Chancellor, E., **Ainsworth, C.H.**, Gleason, J.S., Tirpak, J.M., Love, M.S., Babcock, E.A. 2019. Representing species distributions in spatial-explicit ecosystem models from presence-only data. *Fisheries Research*, 210: 89-105.
  23. Natugonza, V., **Ainsworth, C.H.**, Sturludóttir, E., Musinguzi, L., Ogutu-Ohwayo, R., Tomasson, T., Nyamweya, C., Stefansson, G., 2018. Ecosystem models of Lake Victoria (East Africa): exploring the sensitivity of ecosystem effects of fishing to model choice. *BioRxiv*, 489260.
  24. \*Morzaria-Luna, H., **Ainsworth, C.H.**, Tarnecki, J., and Grüss, A., 2018. Diet composition uncertainty determines impacts on fisheries following an oil spill. *Ecosystem Services*, 33: 187-198.
  25. **Ainsworth, C.H.**, Paris, C., Perlin, N., Dornberger, L.N., Patterson, W., Chancellor, E., Murawski, S., Hollander, D., Daly, K., Romero, I., Coleman, F., Perryman, H. 2018. Impacts of the Deepwater Horizon oil spill evaluated using an end-to-end ecosystem model. *PLoS One*. 2018 Jan 25;13(1):e0190840. doi: 10.1371/journal.pone.0190840.
  26. Grüss A.M., Drexler M.D., **Ainsworth C.H.**, Roberts J.J., Carmichael, R.H., Putman, N.F., Richards, P.M., Chancellor, E., Babcock, E.A., Love, M.S. 2018a Improving the spatial allocation of marine mammal and sea turtle biomasses in spatially explicit ecosystem models. *Marine Ecology Progress Series*, 602: 255-274.
  27. Grüss, A., Perryman, H.A., Babcock, E.A., Sagarese, S.R., Thorson, J.T., **Ainsworth, C.H.**, Anderson, E.J., Brennan, E., Campbell, E.D., Christman, M.C., Cross, S., Drexler, M.D., Drymon, J.M., Gardner, C.L., Hanisko, D.S., Hendon, J., Koenig, C.C., Love, M., Martinez-Andrade, F., Morris J., Noble, B.T., Nuttall, M.A., Osborne, J., Pattengill-Semmens, C., Pollack, A.G., Sutton, T., Switzer, T.S. 2018c. Monitoring programs of the U.S. Gulf of Mexico: inventory, and development and use of a large monitoring database to map fish and invertebrate spatial distributions. *Reviews in Fish Biology and Fisheries*, 28(4): 667-691.
  28. Grüss, A., Drexler, M.D., **Ainsworth, C.H.**, Babcock, E.A., Tarnecki, J.H. and Love, M.S. 2018b Producing Distribution Maps for a Spatially-Explicit Ecosystem Model Using Large Monitoring and Environmental Databases and a Combination of

- Interpolation and Extrapolation. *Frontiers in Marine Science*, 31 January 2018.  
<https://doi.org/10.3389/fmars.2018.00016>
29. Olsen, E., Kaplan, I.C., **Ainsworth, C.H.**, Fay, G., Gaichas, S., Gamble, R., Girardin, R., Hansen, C., Ihde, T.F., Morzaria-Luna, H., Johnson, K.F., Savina-Rolland, M., Townsend, H., Weijerman, M., Fulton, E., and Link, J.S. 2018. Ocean futures as explored using a worldwide suite of ecosystem models. *Frontiers in Marine Science*, 01 March 2018 | <https://doi.org/10.3389/fmars.2018.00064>.
  30. \*Masi, M., **Ainsworth, C.H.**, Kaplan, I.K., Schirripa, M.J. 2018. Inter-specific interactions may influence reef fish management strategies in the Gulf of Mexico. *Marine and Coastal Fisheries*, 10(1): 24-39. DOI: 10.1002/mcf2.10001
  31. \*Bumbeer, J., da Rocha R.M., Bornatowski, H., de Castro Robert, M., **Ainsworth, C.** 2017. Predicting impacts of lionfish (*Pterois volitans*) invasion in a coastal ecosystem of southern Brazil. *Biological Invasions*. <https://doi.org/10.1007/s10530-017-1625-8>
  32. \*Suprenand, P., and **Ainsworth, C.H.** 2017. Trophodynamic effects of climate change-induced alterations to primary production along the Western Antarctic Peninsula. *Marine Ecology Progress Series*, 569: 37-54.
  33. Grüss, A., Rose, K.A., Simons, J., Ainsworth, C.H., Babcock, E.A., Chagaris, D.D., de Mutsert, K., Froeschke, J., Himchak, P., Kaplan, I.C., O'Farrell, H. and Zetina Rejon, M.J. 2017. Recommendations on the use of ecosystem modeling for informing ecosystem-based fisheries management and restoration outcomes in the Gulf of Mexico. *Marine and Coastal Fisheries*, 9: 291-295.
  34. Eddy TD, Lotze HK, Fulton EA, Coll M, **Ainsworth C.H.**, Araújo JN, Bulman C, Bundy A, Christensen V, Field J, Gribble N, Hasan M, Mackinson S, Townsend H. 2017. Ecosystem effects of invertebrate fisheries. *Fish and Fisheries*. 18: 40-53.
  35. \*Masi, M.D., **Ainsworth, C.H.**, Jones, D.L. 2017. Using a Gulf of Mexico Atlantis model to evaluate ecological indicators for sensitivity to fishing mortality and robustness to observation error. *Ecological Indicators*, 74: 516-525.
  36. Chacin, D.H., Switzer, T.S., **Ainsworth, C.H.**, Stallings, C.S. 2016. Long-term analysis of spatio-temporal patterns in population dynamics and demography of juvenile Pinfish (*Lagodon rhomboides*). *Estuarine Coast and Shelf Science*, 183(2016): 52-61.
  37. Grüss, A., Sagarese, S.R., Drexler, M., Babcock, E., Chagaris, D., **Ainsworth, C.H.**, Penta, B., deRada, S. 2016a. Improving the spatial allocation of functional group biomasses in spatially-explicit ecosystem models: insights from the Gulf of Mexico. *Bulletin of Marine Science*, 4: 473-496.
  38. \*Dornberger, L., **Ainsworth, C.H.**, Gosnell, S. and Coleman, F. 2016. Developing a polycyclic aromatic hydrocarbon exposure dose-response model for fish health and growth. *Marine Pollution Bulletin*, 109(1): 259-266.
  39. Weijerman, M., Link, J.S., Fulton, E.A., Olsen, E., Townsend, H., Gaichas, S., Hansen, C., Skern-Mauritzen, M., Kaplan, I.C., Gamble, R., Fay, G., Savina, M., **Ainsworth, C.H.**, Van Putten, I., Gorton, R., Brainard, R.E., and Hutton, T. 2016. Atlantis ecosystem model summit: report from a workshop. *Ecological Modelling*, 335: 35-38.
  40. \*Tarnecki, J., Wallace, A., Simons, J.D. and **Ainsworth, C.H.** 2016. Progression of a Gulf of Mexico Food Web Supporting Atlantis Ecosystem Model Development. *Fisheries Research*, 179: 237-250.
  41. Grüss, A., Schirripa, M.J., Chagaris, D., Velez, L., Shin, Y-J., Verley, P., Oliveros-Ramos, R. and **Ainsworth, C.H.**, 2016b. Estimating natural mortality rates and

- simulating fishing scenarios for Gulf of Mexico red grouper (*Epinephelus morio*) using the ecosystem model OSMOSE-WFS. *Journal of Marine Systems*, 154(B): 264-279.
42. **Ainsworth, C.H.** 2016. British Columbia Marine Fisheries Catch Reconstruction: 1873 to 2011. *BC Studies*, 188: 81-90.
  43. **Ainsworth, C.H.**, and Walters, C.J. 2015. Ten common mistakes made in Ecopath with Ecosim modelling. *Ecological Modelling*, 308: 14-17.
  44. \*Suprenand, P., **Ainsworth, C.H.** and Jones, D. 2015. Strategic assessment of fisheries independent monitoring programs in the Gulf of Mexico. *PLoS ONE* 10(4): e0120929.
  45. Grüss, A. Schirripa, M.J., Chagaris, D., Drexler, M., Simons, J., Verley, P., Shin, Y-J., Karnauskas, M., Oliveros-Ramos, R., **Ainsworth, C.H.** 2015. Evaluation of the trophic structure of the West Florida Shelf in the 2000s using the ecosystem model OSMOSE. *Journal of Marine Systems*, 144: 30-47.
  46. **Ainsworth, C.H.** and Mumby, P. 2014. Coral-algal phase shifts alter fish communities and reduce fisheries production. *Global Change Biology*, 21(1): 165-172.
  47. Sale, P.F., Agardy, T., **Ainsworth, C.H.**, Feist, B.E., Bell, J.D., Christie, P., Hoegh-Guldberg, O., Mumby, P.J., Feary, D.A., Saunders, M.I., Daw, T.M., Foale, S.J., Levin, P.S., Lindeman, K.C., Lorenzen, K., Pomeroy, R.S., Allison, E.H., Bradbury, R.H., Corrin, J., Edwards, A.J., Obura, D.O., Sadovy de Micheson, Y.J., Samoilys, M.A. and Sheppard, C.R.C. (2014). Transforming Management of Tropical Coastal Seas to Cope with Challenges of the 21st Century. *Marine Pollution Bulletin*, 85(1): 8-23.
  48. Grüss A, Drexler M., **Ainsworth, C.H.**, 2014. Using delta generalized additive models to produce distribution maps for spatially explicit ecosystem models. *Fisheries Research*, 159: 11–24
  49. \*Masi, M., **Ainsworth, C.H.** and Chagaris, D. 2014. A probabilistic representation of fish diet compositions from multiple data sources: a Gulf of Mexico case study. *Ecological Modelling*, 284(2014): 60–74.
  50. Levin, P.S., Kelble, C.R., Shuford, R.L., **Ainsworth, C.H.**, deReynier, Y., Dunsmore, R., Fogarty, M.J., Holsman, K., Howell, E.A., Monaco, M.E., Oakes, S.A. and Werner, F. 2014. Guidance for implementation of integrated ecosystem assessments: a US perspective. *ICES Journal of Marine Science*, doi:10.1093/icesjms/fst112.
  51. Morzaria-Luna H.N., **Ainsworth C.H.**, Kaplan I.C., Levin P.S., Fulton E.A. 2013. Indirect Effects of Conservation Policies on the Coupled Human-Natural Ecosystem of the Upper Gulf of California. *PLoS ONE* 8(5): e64085. doi:10.1371/journal.pone.0064085
  52. \*Drexler M, **Ainsworth C.H.** 2013. Generalized Additive Models Used to Predict Species Abundance in the Gulf of Mexico: An Ecosystem Modeling Tool. *PLoS ONE* 8(5): e64458. doi:10.1371/journal.pone.0064458.
  53. Pitcher, T.J., Lam, M., **Ainsworth, C.H.**, Martindale, A., Nakamura, K., Perry, I., Ward, T., (2013). Improvements to Rapfish: a rapid evaluation technique for fisheries integrating ecological and human dimensions. *Journal of Fish Biology*, 83(4): 865-889.
  54. Morzaria-Luna, H., **Ainsworth, C.H.**, Kaplan, I.C., Levin, P., Fulton, E., 2012. Exploring trade-offs between fisheries and conservation of the vaquita porpoise (*Phocoena sinus*) using an Atlantis ecosystem model. *PLoS ONE* 7(8): e42917. doi:10.1371/journal.pone.0042917
  55. **Ainsworth, C.H.**, Morzaria-Luna, H., Kaplan, I.C., Levin, P., Fulton, E.A., Cudney-Bueno, R., Turk-Boyer, P., Torre, J., Danneman, G., Pfister, T., 2012. Effective

- ecosystem-based management must encourage regulatory compliance: A Gulf of California case study. *Marine Policy*, 36: 1275-1283.
56. Varkey, D., **Ainsworth, C.H.**, and Pitcher, T.J., 2012. Modelling reef fish population responses to fisheries restrictions in Marine Protected Areas in the Coral Triangle. *Journal of Marine Biology*, 2012. DOI: 10.1155/2012/721483.
  57. **Ainsworth, C.H.**, Morzaria-Luna, H., Kaplan, I.C., Levin, P.S. and Fulton, E.A., 2012. Full compliance with harvest regulations yields ecological benefits: Northern Gulf of California case study. *Journal of Applied Ecology*, 49: 63-72.
  58. **Ainsworth, C.H.**, Samhouri, J., Busch, D.S., Cheung, W., Dunne, J., and Okey, T. 2011, Potential impacts of climate change on Northeast Pacific marine foodwebs and fisheries. *ICES Journal of Marine Science*, 68(6): 1217-1229.
  59. **Ainsworth, C.H.** 2011. Quantifying Species Abundance Trends in the Northern Gulf of California Using Local Ecological Knowledge. *Marine and Coastal Fisheries*, 3(1): 190-218.
  60. Fulton, E.A., Link, J.S., Kaplan, I., Savina-Rolland, M., Johnson, P., **Ainsworth, C.H.**, Horne, P., Gorton, R., Gamble, R.J., Smith, A.D.M. and Smith, D.C. 2011. Lessons in Modelling and Management of Marine Ecosystems: The Atlantis Experience. *Fish and Fisheries*, 12(2): 171-188.
  61. Li, L., **Ainsworth, C.H.** and Pitcher, T.J. 2010. Presence of harbor seals (*Phoca vitulina*) may increase exploitable fish biomass in the Strait of Georgia. *Progress in Oceanography*, 87(1-4): 235-241.
  62. **Ainsworth, C.H.**, Kaplan, I.C., Levin, P.S. and Mangel, M. 2010. A statistical approach for estimating fish diet compositions from multiple data sources: Gulf of California case study. *Ecological Applications*, 20(8): 2188-2202.
  63. **Ainsworth, C.H.**, and Pitcher, T.J. 2009. A bioeconomic optimization approach to marine ecosystem restoration: British Columbia case study. *Environmental Conservation*, 36(4): 301-311.
  64. Samhouri, J., Levin, P.S. and **Ainsworth, C.H.** 2010. Identifying thresholds for ecosystem-based management. *PLoS One* 5(1): e8907. DOI: 10.1371/journal.pone.008907
  65. Pitcher, T.J. and **Ainsworth, C.H.** 2010. Resilience to Change in Two Coastal Communities: Using the Maximum Dexterity Fleet. *Marine Policy*, 34: 810-814.
  66. Varkey, D. **Ainsworth, C.H.**, Pitcher, T.J., Goram, Y. and Sumaila, R., 2010. Illegal, Unreported and Unregulated Fisheries Catch in Raja Ampat Regency, Eastern Indonesia. *Marine Policy*, 34(2): 228-236.
  67. **Ainsworth, C.H.**, Pitcher, T.J., Heymans, J.J., Vasconcellos, M. 2008. Reconstructing historical marine ecosystems using food web models: Northern British Columbia from Pre-European Contact to Present. *Ecological Modelling*, 216: 354-368.
  68. **Ainsworth, C.H.**, Varkey, D.A. and Pitcher, T.J. 2008, Ecosystem simulations supporting Ecosystem Based Fisheries Management in the Coral Triangle, Indonesia. *Ecological Modelling*, 214: 361-374.
  69. **Ainsworth, C.H.**, Pitcher, T.J. and Rotinsulu, C. 2008. Evidence of fishery depletions and shifting cognitive baselines in Eastern Indonesia. *Biological Conservation*, 141(3): 848-859. (*Featured article in Current Conservation*)
  70. Grober-Dunsmore, R., Wooninck, L., Field, J., **Ainsworth, C.H.**, Beets, J.P., Berkeley, S., Bohnsack, J.A., Boulon, R., Brodeur, R. D., Brodziak, J., Crowder, L. Gleason, D. F.,

- Hixon, M. A., Kaufman, L., Lindberg, B.L., Miller, M. L., Morgan, L and Wahle, C. 2007. Vertical Zoning in Marine Protected Areas: Ecological Considerations for Balancing Pelagic Fishing with Conservation of Benthic Communities. *Fisheries*, 33(12): 598-610.
71. **Ainsworth, C.H.** and Pitcher, T.J. 2006. Modifying Kempton's Species Diversity Index for use with Ecosystem Simulation Models. *Ecological Indicators*, 6(3):623-630.
72. **Ainsworth, C.H.** and Pitcher, T.J. 2005. Estimating Illegal, Unreported and Unregulated catch in British Columbia's Marine Fisheries. *Fisheries Research*, 75: 40-55.
73. **Ainsworth, C.H.** and Sumaila, U.R. 2005. Intergenerational valuation of fisheries resources can justify long-term conservation: a case study in Atlantic cod (*Gadus morhua*). *Canadian Journal of Fisheries and Aquatic Sciences*, 62: 1104-1110.
74. Sayer, M.D.J., Magill, S.H., Pitcher, T.J., Morissette, L. and **Ainsworth, C.H.** 2005. Simulation-Based Investigations of Fishery Changes as Influenced by the Scale and Design of Artificial Habitats. *Journal of Fish Biology*, 67(B): 218-243.

### Book chapters

75. DeMutsert, K., Coll, M., Steenbeek, J., **Ainsworth, C.H.**, Buszowski, J., Chagaris, D., Christensen, V., Heymans, S.J.J., Lewis, K.A., Libralato, S., Oldford, G., Piroddi, C., Romagnoni, G., Serpetti, N., Spence, M.A., Walters, C. 2023. Advances in spatial temporal coastal and marine ecosystem modeling using Ecopath with Ecosim and Ecopace. Ch 11 in *Treatise on Estuarine and Coastal Science*, 2nd Edition. Reference collection Earth Systems and Environmental Sciences. Elsevier.
76. \*Dornberger, L.N., **Ainsworth, C.H.**, Coleman, F., Wetzel, D.L. 2020. A synthesis of top down and bottom up impacts of the Deepwater Horizon oil spill using ecosystem modeling. Chapter 31 in: Murawski S.A., Ainsworth C., Gilbert S., Hollander D., Paris C.B., Schlüter M., Wetzel D. (Eds.) *Deep Oil Spills – Facts, Fate and Effects*. Springer.
77. \*Ortega-Ortiz, J.G., **Ainsworth, C.H.**, Gracia, A., 2020. Comparing ecosystem model outcomes between Ixtoc 1 and Deepwater Horizon oil spills. Chapter 32 in: Murawski S.A., Ainsworth C., Gilbert S., Hollander D., Paris C.B., Schlüter M., Wetzel D. (Eds.) *Deep Oil Spills – Facts, Fate and Effects*. Springer.
78. Court, C., Hodges, A.W., Coffey, K., Ainsworth, C.H., Yoskowitz, D. 2020. Effects of the Deepwater Horizon oil spill on human communities: catch and economic impacts. Chapter 33 in: Murawski S.A., **Ainsworth C.H.**, Gilbert S., Hollander D., Paris C.B., Schlüter M., Wetzel D. (Eds.) *Deep Oil Spills – Facts, Fate and Effects*. Springer.
79. Berenshtein, I., Perlin, N., **Ainsworth, C.H.**, Ortega-Ortiz, J.G., Vas, A.C. and Paris, C. 2020. Comparison of the spatial extent, impacts to shorelines, and ecosystem and 4-dimensional characteristics of simulated oil spills. Chapter 22 In: Murawski SA, Ainsworth C, Gilbert S, Hollander D, Paris CB, Schlüter M, Wetzel D (Eds.) *Scenarios and Responses to Future Deep Oil Spills – Fighting the Next War*. Springer.
80. Suprenand, P., Hoover, C., **Ainsworth, C.H.**, Dornberger, L.N., Johnson, C.J. 2020. Preparing for the inevitable: ecological and indigenous community impacts of oil spill-related mortality in the United States Arctic marine ecosystem. Chapter 27 in: Murawski SA, Ainsworth C, Gilbert S, Hollander D, Paris CB, Schlüter M, Wetzel D (Eds.) *Scenarios and Responses to Future Deep Oil Spills – Fighting the Next War*. Springer.
81. Lorenzen, K., **Ainsworth, C.H.**, Baker, S., Barbieri, L., Camp, E., Dotson, J., Lester, S. (2017). Climate change impacts on Florida's fisheries and aquaculture sectors and



- options for adaptation. Chapter 14 in *Florida's Climate: Changes, Variations & Impacts*. Florida Climate Institute.
82. **Ainsworth, C.H.** (2016). British Columbia Marine Fisheries Catch Reconstruction 1873-2011. In Pauly, D. and Zeller, D. (eds.). *Global Atlas of Marine Fisheries*. Island Press. 550 pp.
  83. **Ainsworth, C.H.** and Pitcher, T.J. (2008) Back-to-the-Future in Northern British Columbia: Evaluating Historic Marine Ecosystems and Optimal Restorable Biomass as Restoration Goals for the Future. Pages 587-599 in Nielson J. (ed.) *Reconciling Fisheries with Conservation: Proceedings of the Fourth World Fisheries Congress*. American Fisheries Society, Bethesda, USA. [document no. *WFC-0100R*].
  84. Pitcher, T.J. and **Ainsworth, C.H.** (2008) Back-to-the-Future: a candidate ecosystem-based solution to the fisheries problem. In Nielson J. (ed.) *Reconciling Fisheries with Conservation: Proceedings of the Fourth World Fisheries Congress*. American Fisheries Society, Bethesda, USA.
  85. Haggan, N., **Ainsworth, C.H.**, Pitcher, T.J., Sumaila, U.R. and Heymans, J. 2008. Où Sont les Poissons d'Antan? Restoring Past Ecosystems: Policy Trade-offs for Resilience and Food Security for Coastal Communities. Pages 51-74 in: C. Parrish, N. Turner and S. Solberg (Eds.) *Resetting the Kitchen Table: Food Security, Culture, Health and Resilience in Coastal Communities*. Nova Science Publishing. Hauppauge, NY: Nova Science Publishing.
  86. **Ainsworth, C.H.** and Pitcher, T.J. (2005) Using Local Ecological Knowledge in Ecosystem Models. Pages 289-304 in: G.H. Kruse, V.F. Gallucci, D.E. Hay, R.I. Perry, R.M. Peterman, T.C. Shirley, P.D. Spencer, B. Wilson, and D. Woodby (Eds.) *Fisheries assessment and management in data-limited situations*. Alaska Sea Grant College Program, University of Alaska Fairbanks. 948 pp.
  87. **Ainsworth, C.H.** and Pitcher, T.J. (2005) Evaluating Marine Ecosystem Restoration Goals for Northern British Columbia. Pages 419-438 in: G.H. Kruse, V.F. Gallucci, D.E. Hay, R.I. Perry, R.M. Peterman, T.C. Shirley, P.D. Spencer, B. Wilson, and D. Woodby (Eds.) *Fisheries assessment and management in data-limited situations*. Alaska Sea Grant College Program, University of Alaska Fairbanks. 948 pp.
  88. Pitcher, T.J., **Ainsworth, C.H.**, Buchary, E., Cheung, W., Forrest, R., Haggan, N., Lozano, H., Morato, T. and Morrissette, L. (2005) Strategic Management of Marine Ecosystems using Whole-Ecosystem simulation Modelling: The 'Back to the Future' Policy Approach. In: E. Levner, I. Linkov, J. Proth (Eds.) *Strategic Management of Marine Ecosystems*. Springer, NATO Science Series: IV: Earth and Environmental Sciences 50: 199-258.
  89. Pitcher, T.J., Heymans, J.J., **Ainsworth, C.H.**, Buchary, E.A., Sumaila, U.R. and Christensen, V. (2004) Opening the Lost Valley: Implementing a 'Back to the Future' Restoration Policy for Marine Ecosystems and their Fisheries. In: Knudsen, E.E., MacDonald, D.D. and Muirhead, J.K. (Eds.) *Sustainable Management of North American Fisheries*. American Fisheries Society Symposium 43: 165-193.

	<b>Citations</b>
<b>Top 5 cited papers</b>	
Fulton, E.A., Link, J.S., Kaplan, I., Savina-Rolland, M., Johnson, P., Ainsworth, C.H., Horne, P., Gorton, R., Gamble, R.J., Smith, A.D.M. and Smith, D.C. 2011. Lessons in Modelling and Management of Marine Ecosystems: The Atlantis Experience. <i>Fish and Fisheries</i> , 12(2): 171-188.	624
Ainsworth, C.H., Samhouri, J., Busch, D.S., Cheung, W., Dunne, J., and Okey, T. 2011. Potential impacts of climate change on Northeast Pacific marine foodwebs and fisheries. <i>ICES Journal of Marine Science</i> , 68(6): 1217-1229.	233
Ainsworth, C.H., Pitcher, T.J. and Rotinsulu, C. 2008. Evidence of fishery depletions and shifting cognitive baselines in Eastern Indonesia. <i>Biological Conservation</i> , 141(3): 848-859. (Featured article in <i>Current Conservation</i> )	185
Sale, P.F., Agardy, T., Ainsworth, C.H., Feist, B.E., Bell, J.E., Christie, P. 2014. Transforming management of tropical coastal seas to cope with challenges of the 21st century. <i>Marine Pollution Bulletin</i> , 85(1): 8-23.	179
Samhouri, J., Levin, P.S. and Ainsworth, C.H. 2010. Identifying thresholds for ecosystem-based management. <i>PLoS One</i> 5(1): e8907. DOI: 10.1371/journal.pone.008907	178

## Funding

### Funding at USF

Date	Title	Sponsor	Agency	Candidate's funds	Role
2/1/2021-1/31/2015	Spatial ecological modeling of the Gulf of Mexico supporting an Integrated Ecosystem Assessment	Florida Sea Grant	NOAA	\$124,864	PI
9/1/2011-9/17/2015	Center for the Integrated Modeling and Analysis of the Gulf Ecosystem	Gulf Research Initiative	GRI	\$99,236	Co-PI
9/15/2013-9/14/2017	Sloan Research Fellowship	Sloan Foundation	Sloan	\$50,000	PI
9/1/2013-8/31/2016	Integration of local ecological knowledge and new trophic data to model the central and southern Texas continental shelf fishery ecosystem	Marine Fisheries Initiative	NOAA	\$36,674	Co-PI
8/1/2013-12/31/2015	Deep Sea to Coast Connectivity in the Eastern Gulf of Mexico DEEP-C	Gulf Research Initiative	GRI	\$20,109	Contract
3/1/2013-6/30/2014	Strategic assessment of Fisheries Independent Monitoring Programs in the Gulf of Mexico	Ocean Conservancy	n/a	\$52,567	PI
1/1/2015-12/31/2018	Center for the Integrated Modeling and Analysis of the Gulf Ecosystem	Gulf Research Initiative	GRI	\$588,701	Co-PI
3/20/2014-9/22/2016	Characterization of predatory-prey relationships relevant to deepwater horizon oil spill impacts	Stratus Consulting	n/a	\$46,803	PI
10/7/14-8/31/2015	Evaluation of model performance metrics for ewe trosim and casm	Water Institute of the Gulf	CPRA	\$22,226	PI
9/1/2015-8/31/2017	Ecosystem modeling efforts in the Gulf of Mexico: current status and future needs to address management and restoration activities.	Restore	NOAA	\$47,786	Co-PI
1/1/2016-12/31/2017	Improving the use of products derived from monitoring data in ecosystem models of the Gulf of Mexico	Centers of Excellence	Treasury	\$32,998	Co-PI
9/1/2015-8/31/2017	Characterization of predatory-prey relationships relevant to deepwater horizon oil spill impacts	Stratus Consulting	n/a	\$2,700	PI

9/1/2015 - 8/31/2017	Characterizing trophic interactions on the Texas coastal shelf to support Integrated Ecosystem Assessments	Marine Fisheries Initiative Gulf Research Initiative	NOAA	\$171,171	Co-PI
1/1/2018-6/30/2020	Center for the Integrated Modeling and Analysis of the Gulf Ecosystem	Centers of Excellence	GRI	\$194,764	Co-PI
2/1/2019-2/1/2022	Using ecosystem modeling to understand the impacts of seagrass restoration and		Treasury	\$308,279	PI
9/1/2019-6/30/2020	Ecopath with Ecosim 35 conference and training workshops	CIMAS	NOAA	\$30,000	PI
6/1/2020-12/31/2021	Artificial reefs as management tools	CIMAS-Quest	NOAA	\$87,000	PI
6/1/2021-6/1/2022	Strategic application of an Atlantis ecosystem model for Gulf shrimp	CIMAS-SEFSC	NOAA	\$100,977	PI
6/1/2022-5/31/2024	Strategic application of an Atlantis ecosystem model for Gulf shrimp	CIMAS-SEFSC	NOAA	\$100,663	PI
4/1/2023-4/1/2025	Estimating combined effects of FL TIG restoration projects in Florida using an end to end ecosystem model	Centers of Excellence	Treasury	\$136,117	PI
2/1/2012-1/31/2015	Spatial ecological modeling of the Gulf of Mexico supporting an Integrated Ecosystem Assessment	Florida Sea Grant	NOAA	\$127,351	PI
Sum				\$2,380,986	

#### Funding prior to USF

- California Current Model Exploratory Work. Department of Fisheries and Oceans. Government of Canada (\$16,000 CAD) (June 2009 – Aug. 2009) (Co-Investigator)
- Evaluating the Human Dimensions of Fisheries. Martha Piper Research Fund. University of British Columbia (\$25,000 CAD) (Co-Investigator)
- University Graduate Fellowship, Sept. 2004-April 2006. University of British Columbia. (\$32,000 CAD)
- The Darkside of Marine Fisheries: Quantifying Illegal, Unreported and Unregulated (IUU) Catch in British Columbia. Ministry of Water, Land and Air Protection, Government of Canada (\$3,000 CAD) (Feb. 2004 – Mar. 2004). (Co-Investigator)
- WWF State of Species Database V 1.01. The Nature Audit. World Wildlife Fund Canada (\$1,750 CAD) (Feb. 2003) (Awardee)
- Spatial Investigations for the Gwaii Hanaas National Marine Conservation Area. World Wildlife Fund Canada (\$5,000 CAD) (Jan. 2003) (Co-investigator)
- Provincial Scholarship, Sept 1992. (\$2,000 CAD)
- Passport to Education, Sept 1992. (\$800 CAD)

## Courses taught

### Instructor of record

- Fall (2012, 2014, 2016, 2018, 2020, 2022). Population dynamics and fisheries. OCE6934.641. University of South Florida (3 credits).
- Fall (2013, 2015, 2017, 2019, 2021, 2023). Marine ecosystem modeling. OCE6934.641. University of South Florida (3 credits).
- Fall (2020, 2022) Biological Oceanography. University of South Florida (Guest Lecture)
- Fall (2019) Applied Methods in Fisheries Science. University of South Florida (1 credit)
- Fall (2017) Management Strategy Evaluation short course. ICES 2017 Annual Science Meeting.
- Spring (2016) R Code. OCE 6934.640. University of South Florida (1 credit).
- Fall (2011). Fisheries ecology reading course. OCE6934.640. University of South Florida. (1cr)
- Fall (2011, 2012, 2013, 2014, 2015). Fish Biology. OCB 6050.607. University of South Florida. Instructor: Ernst Peebles.
- June (2010). Atlantis training course (4 days) NOAA-SEFSC. Galveston, TX
- Dec (2019). Ecopath with Ecosim Intro (3 days) Ecopath35. USF CMS St. Petersburg, FL.
- Nov (2009). Atlantis training course (4 days) CICESE. Ensenada, Mexico
- Sept (2009). Atlantis training course (3 days) NOAA-NWFSC. Seattle, WA
- Nov (2005) Scottish Association for Marine Science. Oban, Scotland

### Guest Lecturer

- Fall (2015; 2019) Marine Resource Remote Sensing. OCE6934.636. University of South Florida. Instructor: Chuanmin Hu.
- Fall (2016) OCE 6934 Applied Phytoplankton Ecology. Instructor: Kendra Daly
- Fall (2011, 2012) Introduction to Oceanography. OCE2001.608. University of South Florida. Instructor: Kent Fanning
- Fall (2013; 2018-2023) OCE6934.628 Dynamics of Marine Ecosystems. Instructor: Mark Luther & Kendra Daly.
- Spring (2012) OCE 6934.640 Fish Biology. Instructor: Chris Stallings.
- Fall (2011-2019) Biological Oceanography OCB6050.615. Instructor: Ernst Peebles.
- Spring 2008. Ecosystem modelling approaches and applications. BIOL 325. Western Washington University. Instructor: Peter Kiffney.
- Fall 2007. Restoration ecology: Department of Earth and Ocean Sciences. EOSC 478. University of British Columbia. Instructor: Evgeny Pakhomov
- Fall 2006. FISH 501. Bioeconomic restoration modelling. Department of Resource Management and Environmental Studies. University of British Columbia. Instructor: Villy Christensen
- Fall 2005. Ecopath with Ecosim training course (5 days). University of British Columbia Fisheries Centre. Vancouver, Canada.

- Fall 2005. Ecopath with Ecosim training course (4 days). Scottish Association for Marine Science. Oban, Scotland, UK. OCE6971.641 Thesis: Masters 2012-Present
- OCE6972.641 Directed Research 2012- Present
- OCE7980.641 Dissertation: Doctoral 2013-Present

## Student evaluation

Student evaluations can be made available upon request. At my Tenure review, I scored above the College of Marine Science average. My faculty evaluator wrote the following comments to the Tenure Review Committee...

*Specifically, students appreciate [Dr. Ainsworth's] availability to assist students and respect and concern for students. One student in Population Dynamics wrote, "Dr. Ainsworth was incredibly helpful and accessible to students, working very hard to help students outside of class". Another said, "Dr. Ainsworth worked very hard outside of class in order to accommodate the steep learning curve..."*

## Postdoctoral & Research Associate Supervision

- Holly Perryman (Post-doc) (Sept 2019 to present). Atlantis ecosystem model external panel review, Centers of Independent Experts and NOAA.
- Paul Suprenand (Post-doc) (July 2013 to April 2014). Topic: Analysis of Northern Gulf of Mexico food web; analysis of fisheries independent monitoring program efficiency.
- Joel Ortega-Ortiz (Post-doc) (Feb 2015 to July 2015. Research Associate: July 2015-present). Topic: Biogeochemical modeling of IXTOC oil spill.
- Joe Tarnecki (Research Assistant) (Sept 2014 to April 2016. Topic: Statistical analysis of fish diet compositions)

## Graduate Student Supervision (2010-Present)

*PhD Students graduated or in progress*

- Rebecca Scott (PhD, 2018-present). Benthic-pelagic linkages.
- Hallie Repeta (PhD, 2020-present). Larval connectivity.
- Kelly Vasbinder (PhD, 2015-2022). Management Strategy Evaluation in the Gulf of Mexico.
- Lindsey Dornberger (PhD, 2012-2018). Long-term impacts of the Deepwater Horizon oil spill in the Northeastern Gulf of Mexico examined using the Atlantis ecosystem model.
- Michelle Masi (PhD, 2012-2017). Integrated Ecosystem Assessment (IEA) for the Gulf of Mexico using the Atlantis ecosystem model.
- Michael Drexler (PhD, 2011-2018 graduated). Long-term impacts from the Deepwater Horizon oil spill in the Gulf of Mexico examined using the Atlantis ecosystem model.

*Masters Students graduated or in progress*

- Josue Celiscar (MS, Starting Aug 2023-present)
- Tiff Raetzel (MS, 2019-present). Artificial reefs in fisheries management.
- Brittany Combs MS 2013-2018 (graduated) Manatee collision risk. PhD 2019-2022 (now in a different lab)
- Alisha Gray (M.Sc, 2011-2014). The influence of fisheries on red tide frequency and severity on the West Florida Shelf examined using Ecopath with Ecosim.

- Elizabeth Viau (MS, 2014-2019). Fish communities on natural and artificial reefs in the Eastern Gulf of Mexico.

*I served as an academic committee member for (bold is current):*

- **J. Van Vaerenbergh (MS, USF), S. Volkel (PhD, USF), H. Repeta (PhD, USF), J. Celiscar (MS, USF), R. Scott (PhD, USF), T. Raetzel (MS, USF).** K. Vasbinder (PhD, USF), E. Simpson (MS, USF), E. Herdter (PhD, USF), R. Scott (PhD, USF), C. Estes (PhD, USF), A. Andres (PhD, USF), Megan Ferguson (MS, USF), M. Nutall, (PhD, UM), L. McEachron (PhD, UF), P. Suprenand (PhD, USF), J. Fenton (MS, USF), D. Chacin (MS,USF), D. Varkey (PhD, UBC), L. Li (PhD, UBC), C. Crowley (PhD, USF) , M. Masi (PhD, USF) H. Perryman (PhD, UM), M. Birk (PhD, USF), B. Combs (MS, USF), L. Dornberger (PhD, USF), M. Drexler (PhD, USF)
- *Undergraduate supervision:* Janaina Bumbeer (MS, Federal University of Paraná, Brazil). Alyssa McGee (USF Tampa) 2016; Stacy Bohovsky (MA, USF School of Global Sustainability, 2012); Michael Estebahn (BE, USF Civil and Environmental Engineering, 2012)

## Student accolades

- FWRI Forage Fish Fellowship (\$15000) H. Repeta
- William and Elsie Knight Fellowship (\$32000) R. Scott
- William T. Hogarth Fellowship (\$10000) H. Repeta
- Paul Getting Fellowship (\$13000) R. Scott
- Jane Applegate Promising Scholar Award (\$5000) R. Scott
- Robert M. Garrels Fellowship (\$15000) L. Dornberger, R. Scott
- Suncoast Fly Fishers Scholarship (\$500) H. Repeta
- Vembu Subramanian Award (\$1000) H. Repeta
- Von Rosenstiel Fellowship (\$26000), R. Scott
- Von Rosenstiel Fellowship (\$12000), A. Gray
- Kaye Pearson Scholarship (\$10000), Jane Applegate, R. Scott, H. Repeta
- Best Student Presentation GOMRI 2015 (\$500) L. Dornberger
- Mote Marine Laboratory Fellowship (\$144000) P. Suprenand
- Fulbright Scholar (\$32000) P. Suprenand
- Watkins Award (\$10000) L. Dornberger
- Bill Young Fellowship (\$10000) M. Masi
- Fish Florida Scholarship (\$2500) M. Masi, R. Scott, A. Gray
- Presidential Doctoral Fellowship (\$125000) K. Vasbinder
- Carl Riggs Fellowship (\$10000) M. Masi
- Jack and Katharine Ann Lake Fellowship (\$13000) L. Dornberger, R. Scott
- Gulf Oceanographic Charitable Trust (relinquished) (\$12000) M. Drexler
- Marine Resource Assessment Fellowship (\$30000) M. Drexler, E. Simpson
- Wells Fargo Fellowship (\$10000) L. Dornberger
- Sanibel Captiva/Bridell Memorial Fellowship (\$10000) A. Gray
- Aylesworth Scholarship (\$12000) M. Masi
- USF Student Travel grant (\$1500) M. Drexler
- USF Student Government Conference grant (\$600) M. Drexler
- Southern Kingfish Association Fellowship (\$10000) A. Gray

## Continuing education

- Portland, OR. 2015. Introduction to Bayesian Inference Using Gibbs Sampling (BUGS) for Fish Biologists (I and II) AFS 2015 (Dr. Dan Rawding).
- St. Petersburg, FL. Aug. 2015. Presentation Boot Camp. USF College of Marine Science.
- St. Petersburg, FL. Nov. 2015. Stock Synthesis 3. FWRI (Dr. Rick Methot).
- Vancouver, BC. April 2013. Ecopath Programming Course. UBC (Dr. Villy Christensen)
- Seattle, WA. July 2010. Error Estimation in Trophic Modelling. Alaska Fisheries Science Center (NOAA) (Dr. Kerim Aydin)
- Seattle, WA. Nov. 2008. Data Analysis using Regression and Multilevel / Hierarchical models. Northwest Fisheries Science Center (NOAA) (Dr. Eli Holmes)
- February 2008. Biogeochemical modelling tools. DFO Pacific Biological Station, Nanaimo, Canada
- Vancouver, BC. Dec. 2007. Bayesian Decision Analysis. University of British Columbia. (Dr. Murdoch McAlister)
- Annapolis, MD. Aug. 2006. Ecopath with Ecosim VB .net programming course. Chesapeake Research Consortium. (Dr. Villy Christensen)
- Vancouver, BC. Dec. 2002. Programming in Visual Basic with special reference to Fisheries Science. University of British Columbia Fisheries Centre. (Dr. Steve Martell)
- Vancouver, BC. Feb. 2001. Scientific Writing Course. University of British Columbia Fisheries Centre.

## Consultancy

- Expert Panel, June 2018. Evaluation of modeling methods used in an Environmental Impact Statement for the Mid-Barataria sediment diversion on the Mississippi River. Water Institute. New Orleans, LA.
- Editor, March 2016. Delta Management Fish and Shellfish Ecosystem Model. Prepared for the Coastal Protection and Restoration Authority of the State of Louisiana.
- Editor, March 2016. Development of the CASM for Evaluation of Fish Community Impacts for the Mississippi River Delta Management Study. Prepared for the Coastal Protection and Restoration Authority of the State of Louisiana.
- Consultant, Nov 2005. Benthic-Pelagic Linkages in MPA Design: A workshop to explore the application of science to vertical zoning approaches. National Oceanic and Atmospheric Administration. Monterey, CA. Nov 15-16, 2005.
- Consultant, May 2005. Guidelines for Assessment of Small-Scale/Data-Deficient Fisheries Case Study Workshop. Marine Stewardship Council. Rosenstiel School of Marine Science, University of Miami. May 2-5, 2005.
- Consultant, Mar 2005. Assessing Socio-Economic Impacts of SARA listings using Dynamic Stock Assessment Models. Department of Fisheries and Oceans. Vancouver, BC. Canada. March 22-23, 2005.
- Consultant, Jan 2004. North Coast Marine Workshop. Golder. Burnaby, Canada.

## Service

### *Panels and committees*

- (2023) Effects of Climate Change on the World's Oceans ECCWO5. 17-21 April 2023, Bergen, Norway. Session Convener (W4); A global ensemble of comparable marine ecosystem models to project climate risk to species and human communities. <https://meetings.pices.int/meetings/international/2023/eccwo-5/program>
- (2020) NOAA Ocean Acidification Program review panel
- (2018-2021) Gulf of Mexico Fishery Management Council Ecosystem Science and Statistical Committee
- (2016) NOAA Sea Grant Population and Ecosystem Dynamics Fellowship review panel.
- (2015-2017) NCEAS Working Group (Exxon Valdez impacts, Gulf of Alaska)
- (2015) GFMC Fishery Ecosystem Plan Technical Working Group.
- (2015) COCA FY14 Climate impacts on fish proposal review panel, NOAA. Silver Springs, MD.
- (2014-2015) Vice-Chair, Gulf of Mexico Fishery Management Council's Ecosystem Science and Statistical Committee
- (2012-2014) Gulf of Mexico Fishery Management Council's Ecosystem Science and Statistical Committee
- (2013) SEDAR 33 (Southeast Data Assessment and Review) ecosystem working group for the gag grouper stock assessment.

### *University committees*

- (2020-present) CMS Admissions committee
- (2020-present) USF Library Council
- (2019-present) CMS Space Committee
- (2016-present) USF Council on Technology for Instruction and Research
- (2015-present) CMS Curriculum Committee.
- (2011-present) CMS Marine Resource Assessment Program Committee, Chair
- (2011-present) CMS Faculty Search Committees (various)
- (2011-present) CMS Information Technology Committee
- (2017-2019) CMS Faculty Evaluation Committee
- (2011-2014) CMS Seminar Committee.
- (2012) CMS Undergraduate Education Committee
- (2013) CMS MRA Certificate Program Committee, Chair

### *Other*

- (2015, 2017, 2019) Session Organizer, GOMRI Symposium
- (2014) Subject editor, Ecological Applications
- (2012-Present) Ecopath with Ecosim Research Consortium member.
- (2006-2007) Founding member, Pacific Marine Analysis and Research Association (PacMARA).
- (2006) AquaLink Graduate Student Association.



- (1993-1994) President, Vancouver School of Theology Residents Association
- (1992-1993) Vice President, Vancouver School of Theology Residents Association
- (1992) Deckhand, Commercial salmon gillnetter British Columbia.
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*I have provided peer review for the following journals and competitions (not a complete list)*

Ecological Modelling	Estuarine, Coastal and Shelf Science
Ecology and Society	Fisheries Research
Marine Ecology Progress Series	Hawaii Sea Grant
Fish and Fisheries	Hydrobiologia
CAMEO (NOAA/NSF)	Marine Environmental Research
ICES Journal of Marine Science	N. American Journal of Fisheries Management
American Fisheries Society Books	New Zealand J. Mar. and Freshwater Research
Aquatic Living Resources	Progress in Oceanography
Biological Conservation	R Journal
Bulletin of Marine Science	Ecosystems
Conservation Biology	Ecological Applications (subject editor)
CT NY Sea Grant	PhD Theses examiner: Internal; External
Florida Sea Grant	National Science Foundation
Global Change Biology	Washington Sea Grant
Gulf of Mexico Science	National Geographic Society
Coastal Management Journal	Elsevier Books
Fisheries Management and Ecology	NOAA Internal Reviews
PLoS Computational Biology	PLoS One
Env. Science and Tech.	Journal of Coastal Research
NMFS Tech. Memo.	NOAA MARFIN
Reviews in Fish Biology and Fisheries	NOAA Saltonstall-Kennedy
Frontiers in Marine Science	NPRB
Ocean and Coastal Management	Food webs

## Selected presentations

- **Vancouver, BC.** Oct 2022. Professor Tony J. Pitcher Symposium.
- **Atlantis Summit 2022.** Estimating the marginal value of seagrass habitat using an end-to-end ecosystem model
- **GOMRI, New Orleans, LA.** April 2022. Estimating the marginal value of seagrass habitat using an end-to-end ecosystem model. (Oral presentation).
- **AFS, Reno, NV.** Sept 29 2019 Comparison of Deepwater Horizon and Ixtoc Oil Spills Using an End-to-End Model (Oral presentation)
- **Tampa, FL.** March 2017. Deepwater Horizon oil spill impacts American Fisheries Society (Oral presentation)
- **New Orleans, LA.** Jan 2017. GOMRI Symposium Session Keynote. (Oral presentation).
- **Coral Springs, FL.** April 2016. Ecosystem recovery following the DWH oil spill evaluated using an end-to-end model. National Conference on Ecosystem Restoration (Oral presentation).
- **Tampa, FL.** Jan 2016. Evaluation of DWHOS ecosystem impacts using an Atlantis biogeochemical model. In 2016 GOMRI Science Conference (Poster presentation).
- **Gainesville, FL.** Sept 2015. Development of an Atlantis Model for Integrated Ecosystem Assessment. Coastal Science Symposium (Oral presentation).

- **Portland, OR.** Aug 2015. Development of an Atlantis model for studying Deepwater Horizon Impacts. American Fisheries Society (Oral presentation).
- **Houston, TX.** Feb 2015. Development of an Atlantis ecosystem model to study ecosystem impacts of DWHOS. GOMRI Science Conference (Oral presentation).
- **Houston, TX.** Feb 2015. Ecosystem modeling: an approach to estimate effects of PAHs on fishes. GOMRI Science Conference (Oral presentation) (Presenter: L. Dornberger)
- **Barcelona, Spain.** Gulf of Mexico Species Interactions (GOMEXSI): integrated ecosystem trophic data for ecopath models and ecosystem based fisheries management. 30 year Anniversary Ecopath with Ecosim Symposium (Poster presentation) (Presenter: J. Simons)
- **St. Petersburg, FL.** May 2014. NOAA Quest webinar (online) (Oral presentation).
- **Honolulu, HI.** February 2014. Ecosystem modelling in the Gulf of Mexico supporting an integrated ecosystem assessment. Ocean Science Meeting (Oral presentation)
- **Honolulu, HI.** February 2014. Implementation of new spatial forcing functions in the Atlantis modeling framework to accurately represent oil spill impacts in the Gulf of Mexico. Ocean Science Meeting (Poster presentation) (Presenter: L. Dornberger)
- **Mobile, AL.** January 2014. Development of an Atlantis ecosystem model to study food web impacts of DWHOS. Gulf of Mexico Oil Spill and Ecosystem Science Conference. (Oral presentation)
- **Mobile, AL.** January 2014. Implementation of new spatial forming functions in the Atlantis modeling framework to accurately represent oil spill impacts in the GoM. Gulf of Mexico Oil Spill & Ecosystem Science Conference. (Poster presentation) (Presenter: L. Dornberger).
- **Mobile, AL.** January 2014. Modeling population connectivity, larval drift, and cumulative contaminate exposure mortality in the GoM. Gulf of Mexico Oil Spill & Ecosystem Science Conference. (Poster presentation) (Presenter: M. Drexler)
- **La Coruna, Spain.** September 2014. The use of zero inflated generalized additive models to predict aggregate functional group distributions for the Gulf of Mexico. ICES Annual Science Conference (Oral presentation) (Presenter: M. Drexler)
- **Merida, Mexico.** December 2013. Diet study to support Integrated Ecosystem Assessment. Fisheries Diet Data Compilation and Research: Toward an Integrated Ecosystem Assessment in the Gulf of Mexico (CINVESTAV).
- **NPR interview.** October, 2013. Program “Living On Earth with Steve Curwood”. National radio environmental news and information program. Re: oil spill research.
- **New Orleans, LA.** Feb 2013. Development of an Atlantis ecosystem model to study food web impacts of DWHOS. GOMRI Conference. (Oral presentation).
- **Queen Charlotte City, BC.** November 2012. Northern BC models. Parks Canada. Invited. (Oral presentation).
- **Monterey, CA.** May 2012. Restoring the Gulf of California. Hopkins Marine Station. Stanford University. Invited speaker.
- **Gainesville, FL.** Sept 2012. Ecosystem Modelling in the Gulf of Mexico. University of Florida. Invited. (Oral presentation).
- **Miami, FL.** Sept. 2011. In a perfect world: imagining full compliance with fisheries regulations in the Sea of Cortez. RSMAS University of Miami. Invited. (Oral presentation).
- **Monterey, CA.** August 2011. Role of ecosystem modelling in NOAA’s Integrated Ecosystem Analysis. Southwest Fisheries Science Centre, Pacific Grove. Invited. (Oral presentation).
- **Daytona Beach, FL.** 2011. Development of an Atlantis Ecosystem-Based Model for the Louisiana-Texas Continental Shelf. Coastal and Estuarine Research Federation Daytona International Conference (Poster presentation) (Presenter: A. Adamack)
- **Sendai, Japan.** December 2010. Tools for modelling marine food webs and fisheries. Tohoku University. Invited. (Oral presentation).

- **St. Andrews, New Brunswick.** Sept 2009. Trophodynamic ecosystem modeling: test bed for ecosystem-based fisheries management approaches. St. Andrews Biological Station. Invited. (Oral presentation).
- **Vancouver, BC.** May 2009. Oceans Past II. History of Marine Animal populations. Census of Marine Life (Session chair) (Oral presentation).
- **Sarasota, FL.** November 2008. Spatial Ecosystem Modelling of the Upper Gulf of California. Mote International Symposium. (Poster presentation).
- **Guaymas, Mexico.** March 2008. Atlantis Ecosystem Modelling of the Gulf of California. CIBNOR. Invited. (Oral presentation).
- **Santa Cruz, CA.** Oct. 2006. Ecosystem-Based Management in the Marine Environment: Case Studies and Moving Forward. Santa Cruz, CA. TNC and the David and Lucille Packard Foundation. (Oral presentation).
- **Kolberg, Denmark.** Oct. 2005. Ecosystem Restoration in Northern British Columbia. Oceans Past: History of Marine Animal Populations. Census of Marine Life. (Oral presentation).
- **Barcelona, Spain.** Sept. 2005. Constructing Ecosystem Models of the Past. History of Marine Animal Populations. Census of Marine Life. (Oral presentation)
- **Aberdeen, UK.** Sept. 2005. A Whole Ecosystem Approach to Marine Restoration: Optimal Strategies for Northern British Columbia. ICES Annual Science Conference. (Oral presentation).
- **Vancouver, Canada.** May 2005 Economic Evaluation of Marine Ecosystem Restoration in Northern British Columbia. NAAFE Forum: Fisheries Benefits to All Generations: The Role of Economics. North American Association of Fisheries Economists. (Oral presentation).
- **Barcelona, Spain.** September 2004 Constructing Ecosystem Models of the Past: Structure and Data Sources. International Conference. Oral presentation. Historical Mapping of Animal Populations (HMAP) Mediterranean Workshop. (Oral presentation).
- **Anchorage, AK.** Oct. 2003. Evaluating Marine Ecosystem Restoration Goals for Northern British Columbia. Fisheries Assessment and Management in Data-Limited Situations. Alaska Sea Grant College Program. (Oral presentation).
- **Nice, France.** Oct. 2003. Developing Restoration Strategies and Responsible Harvest Plans for the Marine Ecosystem of Northern British Columbia. Strategic Management of Marine Ecosystems workshop. NATO. Invited. (Oral presentation).
- **Rome, Italy.** Oct. 2003. Evaluating Ecosystem Restoration Goals for BC. Food and Agricultural Organization. Invited. (Oral presentation).
- **Quebec City, QB.** Aug. 2003. Back to the Future in Newfoundland. American Fisheries Society Annual Symposium. (Oral presentation).
- **Victoria, Canada.** May 2003 Evaluating Whole Ecosystem Restoration Goals for Northern BC. 5th Annual International Conference: Science and Management of Marine Protected Areas (SAMPAA) (Oral presentation).
- **Queen Charlotte City, Canada.** May 2003 Evaluating Ecosystem Restoration Strategies in Northern BC. Towards a Network of Marine Protected Areas for BC's North Coast. World Wildlife Fund. (Oral presentation).
- **Vancouver, Canada.** May 2003. Developing Restoration Strategies for the Marine Ecosystem of Northern British Columbia. BC Studies Conference. (Oral presentation).
- **La Paz, Mexico.** Nov. 2002. Using Local Environmental Knowledge to Improve Ecosystem models of Northern BC. CICIMAR. Invited. (Oral presentation).
- **St. Johns, NFLD.** Sept. 2002. Opening the Lost Valley: Evaluating Options for Restoration. Coasts Under Stress. (Poster presentation).

## Technical publications

1. Perryman, H.A., Scott, R.L., Combs-Hintze, B., Repeta, H.C., Vasbinder, K., Masi, M., Kaplan, I., Ainsworth, C.H., Sagarese, S.R., Nuttall, M.A. 2023. An Atlantis ecosystem model for the Gulf of Mexico with updates to 2023. NOAA technical memorandum NMFS-SEFSC ; 780. <https://doi.org/10.25923/y56z-ns92>.
2. Suprenand, P., **Ainsworth, C.H.**, Hoover, C. 2018. Ecosystem Model of the Entire Beaufort Sea Marine Ecosystem: A Temporal Tool for Assessing Food-Web Structure and Marine Animal Populations from 1970 to 2014. Marine Science Faculty Publications. Scholar Commons. University of South Florida. Tampa. [https://scholarcommons.usf.edu/msc\\_facpub/](https://scholarcommons.usf.edu/msc_facpub/)
3. Suprenand, P., Hoover, C., **Ainsworth, C.H.**, Dornberger, L., Johnson, C.J., 2018. Ecological and Indigenous Community Impacts of Oil Spill Mortality in Alaskan Marine Ecosystems. Marine Science Faculty Publications. Scholar Commons. University of South Florida. Tampa. [https://scholarcommons.usf.edu/msc\\_facpub/](https://scholarcommons.usf.edu/msc_facpub/)
4. Meselhe, E., Costanza, K., **Ainsworth, C.H.**, Chagaris, D., Addis, D., Simpson, E., Rodrigue, M., Jung, H. and Smits, J. 2017. Models performance assessment metrics for the LCA Mississippi River hydrodynamic and delta management study. Report for the Coastal Protection and Restoration Authority. The Water Institute of the Gulf. Available: [emeselhe@thewaterinstitute.org](mailto:emeselhe@thewaterinstitute.org)
5. **Ainsworth, C.H.**, 2016. Peer review of EwE and CASM Mississippi River Delta Management Studies: Editors Report. Prepared for the Water Institute of the Gulf under project CPRA-2016-TO39-DR. University of South Florida. St. Petersburg, FL. 61 pp
6. Kumar, R., Surma, S., Pitcher, T.J., Varkey, D., Lam, M., **Ainsworth, C.H.** and Pakhomov, E. 2016. An ecosystem model of the ocean around Haida Gwaii, northern British Columbia: Ecopath, Ecosim and Ecospace. Institute for the Oceans and Fisheries, University of British Columbia, Canada. Fisheries Centre Research Reports.
7. **Ainsworth, C.H.** 2015. British Columbia Marine Fisheries Catch Reconstruction: 1873-2010. Fisheries Centre Working Paper Series. Working Paper #2015-62. 9 pp.
8. **Ainsworth, C.H.**, Schirripa, M.J. and Morzaria-Luna, H. (eds.), 2015. An Atlantis ecosystem model for the Gulf of Mexico supporting Integrated Ecosystem Assessment. US Dept. Comm. NOAA Technical Memorandum NMFS-SEFSC-676. 149 pp.
9. **Ainsworth, C.H.** 2015. Canada (Pacific), In: D. Pauly and D. Zeller (eds.) Atlas of Fisheries Impacts on the World's Marine Ecosystems, 1950-2010. Island Press, Washington, D.C.
10. **Ainsworth, C.H.**, Chagaris, D., Addis, D. and Simpson, E. 2014. Model performance evaluation for EwE, Trosim and CASM. Interim report prepared for the Water Institute. University of South Florida, St. Petersburg, FL. 32 pp. Available: [ainsworth@usf.edu](mailto:ainsworth@usf.edu).
11. Simons, J., Poelen, J.H., Yuan, M., Vega-Cendejas, M.E., Carollo, C., Reed, D. and **Ainsworth, C.H.** 2014. Gulf of Mexico species interactions (GoMexSI): Integrated ecosystem trophic data for Ecopath models and ecosystem based fisheries management. Fisheries Centre Research Reports, 22(3): 172-174.
12. Suprenand, P.M., Drexler, M., Jones, D.L., **Ainsworth, C.H.** 2014. Strategic assessment of fisheries independent monitoring programs in the Gulf of Mexico. Report to the Ocean Conservancy. Marine Science Faculty Publications. Paper 218. Available: [http://scholarcommons.usf.edu/msc\\_facpub/218/](http://scholarcommons.usf.edu/msc_facpub/218/)

13. Sagarese, S.R., Gray, A.M., **Ainsworth, C.H.**, Chagaris, D.D., Mahmoudi, B., 2015. Red tide mortality on red grouper (*Epinephelus morio*) between 1980 and 2009 on the West Florida Shelf. SEDAR 42 Working Paper. SEDAR, North Charleston, SC. 12 pp.
14. Grüss, A., Schirripa, M.J., Chagaris, D., Verley, P., Shin, Y.-J. , Velez, L., **Ainsworth, C. H.**, Sagarese, S. R., and Karnauskas, M. 2014. Evaluation of the natural mortality rates of red grouper (*Epinephelus morio*) in the West Florida Shelf ecosystem using the individual-based, multi-species model OSMOSE-WFS. SEDAR 42 Working Paper. SEDAR, North Charleston, SC. 70 pp.
15. Gray, A., **Ainsworth, C.**, Chagaris, D. and Mahmoudi, B., 2013. Red tide mortality on gag grouper 1980-2009. Working paper. SEDAR 33. SEDAR, North Charleston, SC. 44 pp
16. Grüss, A., M.J. Shirripa, D. Chagaris, M.D. Drexler, J. Simons, P. Verley, Y.-J. Shin, R. Oliveros-Ramos, M. Karnauskas, and **C.H. Ainsworth**. 2013. Natural mortality rates and diet patterns of gag grouper (*Mycteroperca microlepis*) in the West Florida Shelf ecosystem in the 2000s: Insights from the individual-based, multi-species model OSMOSE-WFS. SEDAR33-AW22. SEDAR, North Charleston, SC. 44 pp
17. Levin, P., **Ainsworth, C.H.**, deReynier, Y., Dunsmore, R., Fogarty, M., Holsman, K., Howell, E., Kelble, C., Monaco, M., Oakes, S., Shuford, R. and Werner, C. 2012. Integrated Ecosystem Assessment: Guidance for Implementation. Internal NMFS Report. 31pp.
18. Kaplan, I.C., Horne, P.J., Levin, P.S., **Ainsworth, C.H.**, Samhoury, J.F., Busch, S., Cheung, W., Dunne, J., Okey, T., Merrick, B., Fulton, E.A., 2011. The evaluation of management strategies. NOAA Technical Memorandum. NMFS-NWFSC, 109: 141-218.
19. **Ainsworth, C.H.**, Kaplan, I.C., Levin, P.S., Cudney-Bueno, R., Fulton, E.A., Mangel, M., Turk-Boyer, P., Torre, J., Pares-Sierra, A. and Morzaria-Luna, H. 2011. Atlantis model development for the Northern Gulf of California. U.S. Dept. Commer., NOAA Tech. Memo. NMFS-NWFSC-110, 293p. Available: [http://www.nwfsc.noaa.gov/assets/25/7784\\_08012011\\_125850\\_AtlantisModelTM110WebFinal.pdf](http://www.nwfsc.noaa.gov/assets/25/7784_08012011_125850_AtlantisModelTM110WebFinal.pdf)
20. **Ainsworth, C.H.**, Kaplan, I.C., Levin, P.S. and Mangel, M. 2009. Diet compositions of fish species in the Northern Gulf of California. Integrative Marine Ecology. In Morzaria-Luna, H (ed.) Publication for the PANGAS project. Available: [ainsworth@usf.edu](mailto:ainsworth@usf.edu).
21. **Ainsworth, C.H.**, Varkey, D., and Pitcher, T.J., 2008. Ecosystem Simulation Models of Raja Ampat, Indonesia, in Support of Ecosystem-Based Fisheries Management. Pages 3-124 in: Bailey, M. and Pitcher, T.J. (Eds.) Ecological and Economic Analyses of Marine Ecosystems in the Bird's Head Seascape, Papua, Indonesia: II. Fisheries Centre Research Reports 16(1): 186 pp.
22. **Ainsworth, C.H.**, 2008. EcoLocator User's Guide. Pages 179-186 in: Bailey, M. and Pitcher, T.J. (Eds.) Ecological and Economic Analyses of Marine Ecosystems in the Bird's Head Seascape, Papua, Indonesia: II. Fisheries Centre Research Reports 16(1): 186 pp

23. Varkey, D., Pitcher, T.J. and **Ainsworth, C.H.**, 2008. Ecosystem Based Management: the Influence of a Project in Raja Ampat, Papua Indonesia. Pages 171-177 in: Bailey, M. and Pitcher, T.J. (Eds.) Ecological and Economic Analyses of Marine Ecosystems in the Bird's Head Seascape, Papua, Indonesia: II. Fisheries Centre Research Reports 16(1): 186 pp
24. **Ainsworth, C.H.** and Varkey, D., 2008. Collaborative EBM Project in Indonesia Bears Fruit. Fishbytes 13(6): 1-2.
25. **Ainsworth, C.H.**, Varkey, D. and Pitcher, T.J. 2007. Ecosystem simulation models of Raja Ampat, Indonesia in Support of Ecosystem Based Fisheries Management. Final technical report for the Birds Head Seascape Ecosystem Based Management Project. University of British Columbia Fisheries Centre. December 2007, 111 pp. Available: ainsworth@usf.edu.
26. **Ainsworth, C.H.**, Varkey, D. and Pitcher, T.J. 2007. Ecosystem simulation models for the Bird's Head Seascape, Papua, fitted to data. Pages 6–172 in: Pitcher, T.J., Ainsworth C.H. and Bailey, M. (Eds.) Ecological and Economic Analyses of Marine Ecosystems in the Birds Head Seascape, Papua, Indonesia. Fisheries Centre Research Reports 15(5): 182 pp.
27. Alcock, E., Harris, D., Ings, D., Kennedy, J., Mackie, Q., Murray, G., Neis, B., Pitcher, T.J., Haggan, N., **Ainsworth, C.H.**, Sumaila, R., Rogers, K., Ryan, D., Vodden, K. and Whelan, J. 2007 A Social-Ecological History of Canada's Fisheries. Chapter 2 in: Ommer, R. (Ed.) with the Coasts Under Stress Team, Coasts Under Stress. Restructuring and the Social-Ecological Health. McGill-Queens University Press. Montreal.
28. Baker, K., Davis, R., Haedrich, D., Hamilton, L., Pitcher, T.J., Heymans, S., Sumaila, R., **Ainsworth, C.H.**, Vodden, K. and Wroblewski, J. 2007. New Options for Governance I: Marine and Coastal Waters. Chapter 14 in: Ommer, R. (Ed.) with the Coasts Under Stress Team, Coasts Under Stress. Restructuring and the Social-Ecological Health. McGill-Queens University Press. Montreal.
29. **Ainsworth, C.H.** and Pitcher, T.J. 2005. A Whole Ecosystem Approach to Marine Restoration: Optimal Strategies for Northern British Columbia. ICES CM 2005/BB:03.
30. Pitcher, T.J, **Ainsworth, C.H.**, Lozano, H., Cheung, W.L. and Skaret, G. 2005. Evaluating the Role of Climate, Fisheries and Parameter Uncertainty using Ecosystem-Based Viability Analysis. ICES CM 2005/M:24, 1-6.
31. **Ainsworth, C.H.** and Pitcher, T.J. 2005. Dynamic Simulations with Ecosim. In: Haggan, N. and Pitcher, T. (Eds.). Ecosystem Simulation Models of Scotland's West Coast and Sea Lochs. Fisheries Centre Research Reports 13(4): 42-46.
32. Chuenpagdee, R., Bundy, A., **Ainsworth, C.H.**, Buchary, E.A., Cheung, W.L., Dingerson, L., Ferris, B., Freire, K.M, Giannico, G., Holt, C., Labert, D., Liguori, L., Liu, Y., Nandakumar, D., Poon, A., Salas, S., Salomon, A., Simms, J., Turnipseed, M. and Ware, C. 2005. Reconciling Fisheries with Conservation: Overview of Papers Presented at the Fourth World Fisheries Congress. In: Chuenpagdee, R. and Bundy, A. (Eds.) Innovation and Outlook in Fisheries: an Assessment of the Research Presented at the Fourth World Fisheries Congress. Fisheries Centre Research Reports 13(2): 7-17.
33. Cheung, W.L., **Ainsworth, C.H.**, Simms, J. and Buchary, E.A. 2005. Tools to Reconcile Fisheries with Conservation. In: Chuenpagdee, R. and Bundy, A. (Eds.) Innovation and Outlook in Fisheries: an Assessment of the Research Presented at the Fourth World Fisheries Congress. Fisheries Centre Research Reports 13(2): 49-55.

34. **Ainsworth, C.H.** and Dingerson, L. 2005. Results from the Panel Discussion: Priority Areas for Research Identified at the Fourth World Fisheries Congress. In: Chuenpagdee, R. and Bundy, A. (Eds.) *Innovation and Outlook in Fisheries: an Assessment of the Research Presented at the Fourth World Fisheries Congress*. Fisheries Centre Research Reports 13(2):67-70.
35. **Ainsworth, C.H.** and Pitcher, T.J. 2004. *The Dark Side of BC Marine Fisheries: Estimating Illegal, Unreported and Unregulated Catch*. State of Environment Reporting. Internal Report. Ministry of Water, Land and Air Protection. 44 pp.
36. **Ainsworth, C.H.** 2004. *Spatial Investigations for the Gwaii Haanas National Marine Conservation Area*. Internal Report. World Wildlife Fund Canada. 29 pp.
37. **Ainsworth, C.H.** 2004. *Estimating the Effects of Prey-predator Vulnerability Settings on Ecosim's Dynamic Function*. In: T. Pitcher (Ed.) *Back to the Future: Advances in Methodology for Modelling and Evaluating Past Ecosystems as Future Policy Goals*. Fisheries Centre Research Reports 12(1): 45-47.
38. **Ainsworth, C.H.**, Heymans, S. and Pitcher, T.J. 2004. *Policy Search Methods for Back to the Future*. In: T. Pitcher (Ed.) *Back to the Future: Advances in Methodology for Modelling and Evaluating Past Ecosystems as Future Policy Goals*. Fisheries Centre Research Reports 12(1): 48-63.
39. **Ainsworth, C.H.** and Pitcher, T.J. 2004. *Modifying Kempton's Species Diversity Index for Use with Dynamic Ecosystem Simulation Models*. In: T. Pitcher (Ed.) *Back to the Future: Advances in Methodology for Modelling and Evaluating Past Ecosystems as Future Policy Goals*. Fisheries Centre Research Reports 12(1): 91-93.
40. **Ainsworth, C.H.** and Sumaila, U.R. 2004. *Economic Valuation Techniques for Back to the Future Optimal Policy Searches*. In: T. Pitcher (Ed.) *Back to the Future: Advances in Methodology for Modelling and Evaluating Past Ecosystems as Future Policy Goals*. Fisheries Centre Research Reports 12(1): 104-107.
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42. **Ainsworth, C.H.** 2004. *How we carried out the Back to the Future community interviews*. In: T. Pitcher (Ed.) *Back to the Future: Advances in Methodology for Modelling and Evaluating Past Ecosystems as Future Policy Goals*. Fisheries Centre Research Reports 12(1): 117-125.
43. **Ainsworth, C.H.**, 2003. *AFS 2003 meeting in Quebec City*. Fishbytes 9(4).
44. **Ainsworth, C.H.** and Lozano, H., 2003. *Back to the Future in the Sea of Cortez*. Fishbytes 9(1).
45. **Ainsworth, C.H.** and Sumaila, U.R. 2003. *Intergenerational discounting and the conservation of fisheries resources: a case study in Canadian Atlantic cod*. In: Sumaila, U.R. (Ed.) *Three Essays on the Economics of Fishing*. Fisheries Centre Research Reports 11(3): 26-33.
46. **Ainsworth, C.H.**, Bucharly, E. and Heymans, S. 2002. *Report on Discussions: Group 5 (Models)*. In: T. Pitcher, M. Power and L. Wood (Eds.) *Restoring the Past to Salvage the Future: Report on a Community Participation Workshop in Prince Rupert, BC*. Fisheries Centre Research Reports 10(7): 17-19.

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49. **Ainsworth, C.H.** 2002. Can we split the Ecosim fisheries by license type? In: T. Pitcher, M. Power and L. Wood (Eds.) Restoring the Past to Salvage the Future: Report on a Community Participation Workshop in Prince Rupert, BC. Fisheries Centre Research Reports 10(7): 36-37.
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51. Buchary, E., Heymans, S. and **Ainsworth, C.H.** 2002. Final Discussion on the Models of Northern BC. In: T. Pitcher, M. Power and L. Wood (Eds.) Restoring the Past to Salvage the Future: Report on a Community Participation Workshop in Prince Rupert, BC. Fisheries Centre Research Reports 10(7): 47-48.
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53. **Ainsworth, C.H.** 2001. Electronic Database of British Columbia Fisheries Catches. Fishbytes 7(4).
54. **Ainsworth, C.H.** 2001. How Does Your Information Compare with Scientific Estimates? Institutional Conference. Poster presentation. Community Input Workshop. Back to the Future: policy consultation and simulations. Prince Rupert, BC, Canada. Coasts Under Stress MCRI. December 2001.
55. **Ainsworth, C.H.**, Ferriss, B., Leblond, E. and Guenette, S. 2001. The Bay of Biscay, France: 1998 and 1970 Models. In: S. Guenette, V. Christensen and D. Pauly (Eds.) Fisheries Impacts on North Atlantic Ecosystems: Models and Analyses. Fisheries Centre Research Reports 9(4): 271-313.