

DR. CAMERON H. AINSWORTH

Curriculum Vitae

General

Associate Professor, Fisheries Oceanography
College of Marine Science, University of South Florida
140 7th Avenue South, St. Petersburg, FL 33701
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Office: (727) 553-3373 Cell: (727) 710-2915
Lab URL: <http://www.marine.usf.edu/ainsworthecology/>
Google Scholar: <https://scholar.google.com/citations?user=10>

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)
- B.S. 1997. University of British Columbia. Department of Zoology. Major: Marine Biology

Work history

- June 2017-Present. 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

- June 2018-present. Council Member. Ecosystem Science and Statistical Committee of the Gulf of Mexico Fisheries Management Council.
- May 2018-Present. Member. United Nations Pool of Experts. Division for Ocean Affairs and the Law of the Sea. Secretariat for the Regular Process for Global Reporting and Assessment of the State of the Marine Environment including Socioeconomic Aspects.
- Alfred P. Sloan Research Fellow 2013-2014.

- September 2011 – present. 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

- (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

	All	Since 2014
Citations	2879	1659
h-index	27	21
i10-index	62	39
Total peer reviewed	71	40
Papers per year	5.4	8.0

Peer-reviewed articles

*Student or staff as lead author

1. Vasbinder, K. and **Ainsworth, C.H.**, 2020. Early life history growth in fish reflects consumption-mortality tradeoffs. *Fisheries Research*.
2. Gruss, A., Thorson, J.T., Carroll, G., Ng, E.L., Kirstin, K.K., Aydin, K., Kotwicki, S., Morzaria-Luna, H., **Ainsworth, C.H.**, Thompson, K.A, 2020. Spatio-temporal analyses of marine predator diets from data-rich and data-limited systems. *Fish and Fisheries*. (in press).
3. 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 Ecosim models without historical time series fitting? *Journal of Great Lakes Research*. <https://doi.org/10.1016/j.jglr.2020.01.001>
4. Perryman, H.A., Tarnecki, J.H., Grüss, A., Babcock, E.A., Sagarese

- parameterization of a West Florida Shelf Ecopath model for understanding harmful algal bloom impacts. *Ecological Modelling*, 416: 1-18.
5. Surma, S., Christensen, V., Kumar, R., **Ainsworth, C.**, Pitcher, T.J. 2019. High resolution models reveal structure and function of a Northeast Pacific ecosystem. *Frontiers in Marine Science*, 6: 625.
 6. *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.
 7. 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>
 8. 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.
 9. 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.
 10. 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. 2018 Improving the spatial allocation of marine mammal and sea turtle biomasses in spatially explicit ecosystem models. *Marine Ecology Progress Series*, 602: 255-274.
 11. 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. 2018. 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.
 12. *Morzari7tURngreitzecosystEMC /L1.15 Td[(U)y ÅMCd(r)U.S7tUtw2 (z)., NeMC /LB(EM8.69TT0 1 T

- Large Monitoring and Environmental Databases and a Combination of Interpolation and Extrapolation. *Front. Mar. Sci.*, 31 January 2018.
<https://doi.org/10.3389/fmars.2018.00016>
16. *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
 17. *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>
 18. *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.
 19. 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.
 20. 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 effectBm-ydc/1ratiLcernal (ns)-1 (9 (iLc)5 sCu(0 Tda)-1 (n M)-1 (, M)4)-1 jf3 (, M)4 G55

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29. **Ainsworth, C.H.**, and Walters, C.J. (2015). Ten common mistakes made in Ecopath with Ecosim modelling. *Ecological Modelling*, 308: 14-17.
30. *Suprenand, P., **Ainsworth, C.H.** and Jones, D. (2015). Strategic assessment of fisheries independent monitoring programs in the Gulf of Mexico. *PLoS One*. DOI: 10.1371/journal.pone.0120929.
31. 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.
32. **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.
33. 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., Samoily, 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.
34. Grüss A, Drexler M., **Ainsworth, C.H.**, (2014). Using delta generalized additive models to produce distribution maps for spatially explicit ecosystem models. *Fisheries Research*,
35. *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.
- 36.

- (2007). Vertical Zoning in Marine Protected Areas: Ecological Considerations for Balancing Pelagic Fishing with Conservation of Benthic Communities. *Fisheries*, 33(12): 598-610.
57. **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.
58. **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.
59. **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 J. of Fisheries and Aquatic Sciences*, 62: 1104-1110.
60. 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

61. *Dornberger, L.N., **Ainsworth, C.H.**, Coleman, F., Wetzel, D.L. 2019. 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.
62. *Ortega-Ortiz, J.G., **Ainsworth, C.H.**, Gracia, A., 2019. 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.
63. Court, C., Hodges, A.W., Coffey, K., Ainsworth, C.H., Yoskowitz, D. 2019. 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.
64. Berenshtein, I., Perlin, N., **Ainsworth, C.H.**, Ortega-Ortiz, J.G., Vas, A.C. and Paris, C. 2019. 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.
65. Suprenand, P., Hoover, C., **Ainsworth, C.H.**, Dornberger, L.N., Johnson, C.J. 2019. 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.
66. Lorenzen, K., **Ainsworth, C.**, 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.
67. **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.

68. **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, U15 Toc-2 (o)6 . T3152 Tc 0 -1.15 14.35(e)-1 (r)do-2 (l)um (c)-1 (o)nWo m

4. Rohal, M., **Ainsworth, C.H.**, Lupher, B., Montagna, P.A., Paris-Limouzy, C., Perlin, N., Suprenand, P.M., Yoskowitz, D. (in review).

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Courses taught

Instructor of record

- Fall (2012, 2014, 2016, 2018). Population dynamics and fisheries. OCE6934.641. University of South Florida (3 credits).
- Fall (2013, 2015, 2017, 2019). Marine ecosystem modeling. OCE6934.641. University of South Florida (3 credits).
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- **Current:** K. Vasbinder (PhD, USF), E. Simpson (MS, USF), E. Herdter (PhD, USF), R. Scott (PhD, USF), Alyssa Andres (PhD, USF), Megan Ferguson (MS, USF), M. Nutall, (PhD, UM), L. McEachron (PhD, UF)
- **Former:** P. Suprenand (PhD, USF), J. Fenton (MS, USF), D. Chacin (MS,USF), D. Varkey (PhD, UBC), L. Li (PhD, UBC), C. Crowley (PhD, USF) , E. Herdter (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). Stacy Bohovsky (MA, USF School of Global Sustainability, 2012); Michael Estebahn (BE, USF Civil and Environmental Engineering, 2012)

Student accolades

- Fish Florida Scholarship (\$10000) R. Scott
- Von Rosenstiel Fellowship (\$12000) R. Scott
- Best Student Presentation GOMRI 2015 (\$500) L. Dornberger
- Garrels Memorial Fellowship in Marine Science (\$15000) 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 (\$1500) M. Masi
- Presidential Doctoral Fellowship (\$125000) K. Vasbinder
- Carl Riggs Fellowship (\$10000) M. Masi
- Jack and Katharine Ann Lake Fellowship (\$13000) L. Dornberger
- Gulf Oceanographic Charitable Trust (relinquished) (\$12000) M. Drexler
- Marine Resource Assessment Fellowship (\$40,000) 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
- Florida AFS student travel grant (\$135) M. Drexler
- Fish Florida Scholarship (\$2500) A.Gray
- Southern Kingfish Association Fellowship (\$10000) A.Gray
- Von Rosenstiel Fellowship (\$12000) A.Gray
- Fish Florida Scholarship (\$2500) A. Gray
- Marine Resource Assessment Fellowship (\$33000) M. Drexler

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

- (2018-Present) Gulf of Mexico Fishery Management Council Ecosystem Science and Statistical Committee
- (2018-Present) Member. United Nations Pool of Experts. Division for Ocean Affairs and the Law of the Sea. Secretariat for the Regular Process for Global Reporting and Assessment of the State of the Marine Environment including Socioeconomic Aspects
- (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.

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Article and proposal reviews

Ecological Modelling (12)	Estuarine, Coastal and Shelf Science (1)
Ecology and Society (1)	Fisheries Research (4)
Marine Ecology Progress Series (18)	Hawaii Sea Grant (1)
Fish and Fisheries (16)	Hydrobiologia (1)
CAMEO (NOAA/NSF) (4)	Marine Environmental Research (1)
ICES Journal of Marine Science (5)	N. American Journal of Fisheries Management (1)
American Fisheries Society Books (1).	New Zealand J. Mar. and Freshwater Research (1)
Aquatic Living Resources (1)	Progress in Oceanography (1)
Biological Conservation (2)	R Journal (1)
Bulletin of Marine Science (3)	Ecosystems (1)
Conservation Biology (2)	Ecological Applications (3) (subject editor) (1)
CT NY Sea Grant (1)	PhD Theses examiner: Internal (1); External (2)
Florida Sea Grant (2)	National Science Foundation (3)
Global Change Biology (2)	Washington Sea Grant (1)
Gulf of Mexico Science (1)	National Geographic Society (1)
Coastal Management Journal (1)	Elsevier Books (1)
Fisheries Management and Ecology (1)	NOAA Internal Reviews (6)
PLoS Computational Biology (1)	PLoS One (1)
Env. Science and Tech. (1)	Journal of Coastal Research (1)

- **Honolulu, HI.** February 2014. Ecosystem modelling in the Gulf of Mexico support 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 the Atlantis ecosystem model to study the impacts of DWHOS. Gulf of Mexico Oil Spill and Ecosystem Science Conference (Poster presentation)
- **Mobile, AL.** January 2014. Implementation of new spatial forcing functions in the Atlantis modeling framework to accurately represent oil spill impacts in the Gulf of Mexico. Gulf of Mexico Oil Spill & Ecosystem Science Conference.

- **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.

3. 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

15. 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
16. 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.
17. Kaplan, I.C., Horne, P.J., Levin, P.S., **Ainsworth, C.H.**, Samhour, 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.
18. **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

25. **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.
26. 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.
27. 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.
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