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Curriculum vitae
International Pacific Halibut Commission
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EDUCATION:

B.Sc. Hons. 1997 University of British Columbia
M.Sc. 1999 University of British Columbia
Ph.D. 2002 University of British Columbia

EMPLOYMENT:

2012 - present: Quantitative Scientist, International Pacific Halibut Commission, Seattle WA.

2010 - 2012: Associate Professor, University of British Columbia, Vancouver, BC.

2004 - 2010: Assistant Professor, University of British Columbia, Vancouver, BC.

2002 - 2003: Assistant Professor, University of Maryland, Center for Environmental Science, Solomons MD.

2002 - 2003: Postdoctoral fellow, University of Wisconsin, Madison, WI.

1999 - 2001: Staff Biologist, Department of Fisheries and Oceans, Nanaimo, BC.

1991 - 1999: Research Assistant, Vancouver Aquarium Marine Science Centre, Vancouver, BC.

APPOINTMENTS:

2012: Canada Research Chair in Quantitative Fisheries Science, Natural Sciences and Engineering Research Council of Canada.

2012: Scientific and Statistical Committee, North Pacific Fisheries Management Council.

2010: AD Model Builder Developer, ADMB Foundation.

PRIMARY PUBLICATIONS:

Martell, S. J. D. Froese, R. (2012) A simple method for estimating MSY from catch and resiliance, *Fish and Fisheries*.
Braccini, J., Etienne, M., and Martell, S. (2011). Subjective judgement in data sub- setting: implications for cpue standardisation and stock assessment of non-target chondrichthyans. *Marine and Freshwater Research*, 62(6):734–743.
Melnichuk, M., Essington, T., Branch, T., Heppell, S., Jensen, O., Link, J., Martell, S., Parma, A., Pope, J., and Smith, A. (2011). Can catch share fisheries better track management targets? *Fish and Fisheries*.
Korman, J., Walters, C., Martell, S., Pine III, W., Dutterer, A., and Rosenfeld, J. (2011). Effects of flow fluctuations on habitat use and survival of age-0 rainbow trout (*oncorhynchus mykiss*) in a large, regulated river. *Canadian Journal of Fisheries and Aquatic Sciences*, 68(6):1097–1109.

- Korman, J., Martell, S., Walters, C., and Rosenfeld, J. (2011). Describing population dynamics for early life stages of rainbow trout (*Oncorhynchus mykiss*) using a stock synthesis model. *Canadian Journal of Fisheries and Aquatic Sciences*, 68(6):1110–1123.
- Forrest, R., McAllister, M., Dorn, M., Martell, S., and Stanley, R. (2010). Hierarchical Bayesian estimation of recruitment parameters and reference points for Pacific rockfishes (*Sebastes* spp.) under alternative assumptions about the stock-recruit function. *Canadian Journal of Fisheries and Aquatic Sciences*, 67(10):1611–1634.
- Frisk, M., Miller, T., Latour, R., and Martell, S. (2011). Assessing biomass gains from marsh restoration in Delaware Bay using Ecopath with Ecosim. *Ecological Modelling*, 222:190–200.
- Frisk, M., Martell, S., Miller, T., and Sosebee, K. (2010). Exploring the population dynamics of winter skate (*Leucoraja ocellata*) in the Georges Bank region using a statistical catch-at-age model incorporating length, migration, and recruitment process errors. *Canadian Journal of Fisheries and Aquatic Sciences*, 67(5):774–792.
- Jensen, O., Ortega-Garcia, S., Martell, S., Ahrens, R., Domeier, M., Walters, C., and Kitchell, J. (2010). Local management of a “highly migratory species”: the effects of long-line closures and recreational catch-and-release for baja california striped marlin fisheries. *Progress in Oceanography*, 86(1):176–186.
- Marsden, D. A., Martell, S., and Sumaila, U.R. 2009. Retrospective bioeconomic analysis of Fraser River sockeye salmon fishery management. *Fisheries Research*, 97(1-2):32–41. (1 citation).
- Pine, W. E., III, S. J. D. Martell, C. J. Walters, and J. F. Kitchell. 2009. Counterintuitive responses of fish populations to management actions: Some common causes and implications for predictions based on ecosystem modeling. *Fisheries* 34: 165-180. (0 citations)
- Martell, S.J.D, C. Walters, U.R. Sumaila 2008. Industry funded fishing license reduction good for both profits and conservation. *Fish and Fisheries*, 9,1-12. (1 citation)
- Walters, C. J., S.J.D. Martell, V. Christensen, B. Mahmoudi, 2008. An Ecosim model for exploring Gulf of Mexico ecosystem management options: implications of including multistanza life history models for policy predictions. *Bull. Mar. Sci.* 83 251-271. (4 citations)
- Zeller, D., Darcy, M., Booth, S., Lowe, M. K., and Martell, S. J. 2008. What about recreational catch? Potential impact on stock assessment for Hawaii’s bottomfish fisheries. *Fisheries Research*, 91, 88-97. (0 citations)
- Martell, Steven JD, William E. Pine III., and Carl J. Walters 2008. Parameterizing age-structured models from a fisheries management perspective, *Can. J. Fish. Aquat. Sci.* 65: 1586-1600. (3 citations)
- Martell, S.J.D. and Walters, C.J. 2008. Experimental policies for rebuilding depleted stocks. *Can. J. Fish. Aquat. Sci.* 65: 1601-1609. (1 citation)
- Martell, S. J. D., C. J. Walters, and R. Hilborn. 2008. Retrospective analysis of harvest management performance for Bristol Bay and Fraser River sockeye salmon (*Oncorhynchus nerka*). *Can. J. Fish. Aquat. Sci.* 65:409-424. (1 citation)
- Forrest, R. E., S.J.D. Martell, M.C. Melynychuk, C. J. Walters 2008. An age-structured model with leading management parameters, incorporating age-specific selectivity and maturity. *Can. J. Fish. Aquat. Sci.* 65: 286-296. (2 citations)
- Pine, William E. III, Steven J.D. Martell, Olaf P. Jensen, Carl J. Walters, James F. Kitchell 2008. Catch-and-release and size limit regulation for blue, white, an striped marlin: the role of postrelease survival in effective policy design. *Can. J. Fish. Aquat. Sci.* 65 975-988. (1 citation)
- Frisk, M.G., T.J. Miller, S.J.D. Martell, and K. Sosebee 2008. New hypothesis helps explain elasmobranch outburst on Georges bank in the 1980s. *Ecological Applications*. 18: 234-245. (3 citations)

- Kaschner, K., Christensen, L., Watson, R., Beblow, J., and Martell, S. (2006). Mapping top consumers in marine ecosystems past and present: comparative consumption rates of great whales and fisheries (sc/58/e3). International Whaling Commission Scientific Committee. St. Kitts and Nevis.
- Hrabick, T. R., O. P. Jensen, S. J. D. Martell, C. J. Walters, and J. F. Kitchell. 2006. Diel migration in the Lake Superior pelagic community. I. Variability in the extent of vertical migration of coregonids in response to varying predation risk. *Can. J. Fish. Aquat. Sci.* 63:2286-2295. (18 citations)
- Jensen, O. P., T. R. Hrabick, S. J. D. Martell, C. J. Walters, and J. F. Kitchell. 2006. Diel vertical migration in the Lake Superior pelagic community. II. modeling trade-offs at an intermediate trophic level. *Can. J. Fish. Aquat. Sci.* 63:2296-2307. (15 citations)
- Melis, T. S., S. J. D. Martell, L. G. Coggins, Jr., I. W.E. Pine, and M. E. Andersen. 2006. Adaptive management of the Colorado River ecosystem below Glen Canyon Dam, Arizona: using science and modeling to resolve uncertainty in river management. In: Proceedings of the American Water Resources Association URL http://www.awra.org/proceedings/cd_proceedings.html. (1 citation)
- Coggins, L. G. J., W. E. I. Pine, C. J. Walters, and S. J. D. Martell. 2006. Age-structured mark-recapture analysis: A virtual-population-analysis-based model for analyzing age-structured capture-recapture data. *North American Journal of Fisheries Management* 26:201-205. (10 citations)
- Kitchell, J. F., S. J. D. Martell, C. J. Walters, O. P. Jensen, I. Kaplan, J. Watters, T. E. Essington, and C. H. Boggs. 2006. Billfishes in an ecosystem context. *Bull. Mar. Sci.* 79:669-682. (3 citations)
- Walters, C. J., S. J. D. Martell, and J. Korman. 2006. A stochastic approach to stock reduction analysis. *Can. J. Fish. Aquat. Sci.* 63:212-223. (13 citations)
- Walters, C. J., V. Christensen, S. J. D. Martell, and J. F. Kitchell. 2005. Possible ecosystem impacts of applying MSY policies from single-species assessment. *ICES Journal of Marine Science* 62:558-568. (45 citations)
- Christensen, L. and Martell, S. (2005). A stochastic framework for reconstructing historical marine mammal abundance from catch records and sparse abundance information: application to the antarctic blue whale and north atlantic and arctic fin whale. *ICES, CM*, 32.
- Lessard, R. B., S. J. D. Martell, C. J. Walters, T. E. Essington, and J. F. Kitchell. 2005. Should ecosystem management involve active control of species abundances? *Ecology and Society* 10:online <http://www.ecologyandsociety.org/vol10/iss12/art11/>. (18 citations)
- Martell, S. J. D., T. E. Essington, B. Lessard, J. F. Kitchell, C. J. Walters, and C. H. Boggs. 2005. Interactions of productivity, predation risk, and fishing effort in the efficacy of marine protected areas for the central Pacific. *Can. J. Fish. Aquat. Sci.* 62:1320-1336. (12 citations)
- Taylor, N. G., C. J. Walters and S. J. D. Martell 2005. A new likelihood for simultaneously estimating von Bertalanffy growth parameters, gear selectivity, natural and fishing mortality. *Can. J. Fish. Aquat. Sci.* 62: 215-223. (7 citations)
- Kitchell, James F., Isaac Kaplan, Sean Cox, Steven J. Martell, Timothy Essington, Chris Boggs, Carl Walters. 2004. Ecological and economic components of alternative fishing methods to reduce bycatch of marlin in a tropical pelagic ecosystem. *Bulletin of Marine Science.* 74: 607-619. (5 citations)
- Cox, S. P., S. J. D. Martell, C. J. Walters, T. E. Essington, J. F. Kitchell, C. Boggs, and I. Kaplan. 2002. Reconstructing ecosystem dynamics in the central Pacific Ocean, 1952-1998. I. Estimating population biomass and recruitment of tunas and billfishes. *Can. J. Fish. Aquat. Sci.* 59:1724-1735. (26 citations)

- Cox, S. P., T. E. Essington, J. F. Kitchell, S. J. D. Martell, C. J. Walters, C. Boggs, and I. Kaplan. 2002. Reconstructing ecosystem dynamics in the central Pacific Ocean, 1952-1998. II. A preliminary assessment of the trophic impacts of fishing and effects on tuna dynamics. *Can. J. Fish. Aquat. Sci.* 59:1736-1747. (49 citations)
- Martell, S. J. D., and C. J. Walters. 2002. Implementing harvest rate objectives by directly monitoring exploitation rates and estimating changes in catchability. *Bull. Mar. Sci.* 70:695-713. (18 citations)
- Walters, C. J., and S. J. D. Martell. 2002. Stock assessment needs for sustainable fisheries management. *Bull. Mar. Sci.* 70:629-638. (13 citations)
- Martell, S. J. D., C. J. Walters, and S. S. Wallace. 2000. The use of marine protected areas for conservation of lingcod (*Ophiodon elongatus*). *Bull. Mar. Sci.* 66:729-743. (40 citations)

BOOKS:

- Walters, C. J. and S. J. D. **Martell** (2004). *Fisheries Ecology and Management*. Princeton, NJ: Princeton University Press. (204 citations)

Significant collaborators in the past five years

Carl J. Walters (University of British Columbia), Murdoch McAllister (University of British Columbia), James F Kitchell (University of Wisconsin), William Pine (University of Florida), Robyn Forrest (Department of Fisheries and Oceans), Rob Stephenson (Department of Fisheries and Oceans), Ross Claytor (Department of Fisheries and Oceans), Rainer Froese (University of Kiel), Hans Skaug (University of Norway), Sean P Cox (Simon Fraser University), John Sibert (University of Hawaii), Nathan Taylor (Department of Fisheries and Oceans), Mark Maunder, (Inter American Tropical Tuna Association).