

Kristen T. Honey - Proposed PhD Title:

Aligning Complex, Adaptive Systems Theory and Data-Limited Assessment Strategies for Improved Fisheries Management

E-IPER Advisers & Reading Committee: Fio Micheli (1st primary), Roz Naylor (2nd primary), Stephen Monismith, Mark Carr (UCSC), and Rod Fujita (Environmental Defense Fund).

Chapter 1 -- or imbed as part of my PhD introduction, not a stand-alone chapter:

Cooperative Strategies in Fisheries Management: Integrating Across Scales

Fujita, R. M., K. T. Honey, A. Morris, J. R. Wilson, and H. Russell. *Bulletin of Marine Science*. 86(2): 251–271, 2010.

Chapter 2:

From Rags to Fishes: Data-Poor Methods for Fishery Managers

Honey, K.T., Moxley, J.H., and Fujita, R.M. 2010. From rags to fishes: data-poor methods for fishery managers. *Managing data-poor fisheries: Case studies, models and solutions*. 1: 155-180. California Sea Grant College Program 2010.

Chapter 3:

From Rags to Fishes II: Quantitative Comparison of Data-Poor Methods for Fisheries Management

Honey, K.T., A. M. Apel, J. Cope, E.J. Dick, A. MacCall, and R. Fujita. Submitted to *Marine and Coastal Fisheries: Dynamics, Management, and Ecosystem Science*, July 2012.

Chapter 4:

Application of dynamic SPR and mean weight from marine reserves for information-limited fisheries management

Honey, K.T. and X. He. Submitted to NOAA Fisheries & Stanford Committee for review, then to *Canadian Journal of Aquatic and Fisheries Sciences*, June 2012.

Chapter 5:

Local-Scale Variation in Dynamic, Nearshore Marine Environments with Implications for Adaptive Sampling Designs and Fisheries Management

Honey, K.T., M. Micheli, M. Carr, S. Monismith, and R. Naylor. in prep.

Targeted journal: TBD after results known & paper takes shape but potentially:

- * *Marine Ecology Program Series*.
- * *Marine Biology*.
- * *Journal of Experimental Marine Biology and Ecology (JEMBE)*.
- * *ECOLOGIA*.
- * *Marine Policy*.
- * *Marine and Coastal Fisheries*.

Future Work Schedule (updated July 9, 2012):

- Ch 4 (polished) to Committee for review by Friday, May 18.
- Ch 5 (1st draft w/ all analysis & results) to Committee for initial review by Monday, June 11.
- Committee individual meetings & feedback -- week of June 18 to discuss Ch 5 analysis & results.
- June 26-29, participate in an invite-only NOAA workshop & present Ch 3 results to a data-moderate review panel, convened by NOAA Fisheries, so these data-limited methods will be further vetted & approved for real-world application with Federally managed stocks.
- Ch 5 (polished) to Committee for review by Monday, July 23.
- In late July, give practice Oral Defense talk at NOAA Fisheries, Santa Cruz, exact date TBD.
- Secure 20K/yr matching funds for 50% Stanford post-doc in Larry Crowder's lab.
- Dissertation Oral Defense -- August 23, 2:00 - 5:00pm, exact location TBA.
- **Final Dissertation to Stanford University by August 31.**