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RESEARCH INTERESTS

Maritime economics and management; Marine resource economics and management

PROFESSIONAL PREPARATION

B.S., Naval Architecture and Marine Engineering, Massachusetts Institute of Technology, 1984
M.S., Ocean Systems Management, Massachusetts Institute of Technology, 1986
M.S., Technology and Policy, Massachusetts Institute of Technology, 1988
Ph.D., Ocean Systems Management, Massachusetts Institute of Technology, 1992

APPOINTMENTS

Research Specialist, Woods Hole Oceanographic Institution (WHOI), 1995-present
Research Associate, WHOI, 1992-1995
Research Assistant, WHOI, 1988-1992
Summer Student Fellow, WHOI, 1985
Lecturer, Massachusetts Maritime Academy, 2008-present
Lecturer, Massachusetts Institute of Technology, 1994-2007
Senior Analyst, Marsoft, Inc., 1998-present

EDUCATIONAL ACTIVITY

- Thesis committee member: Elizabeth Halliday (MIT-WHOI, Ph.D. awarded 2012); Megan May (MIT-WHOI, Ph.D. in progress); Merrielle McCleod (Brown Univ., M.S. awarded 2009)

OTHER PROFESSIONAL ACTIVITIES

- Member, North American Carbon Program Science Steering Group
- Member, International Council for the Exploration of the Seas Working Group on Social and Economic Dimensions of Aquaculture
- Member, Marine Technology Society, Society of Naval Architects and Marine Engineers,
- Member, Editorial Board, Journal of Ocean and Coastal Economics
- Member, WHOI Climate Institute Advisory Panel, WHOI Diversity Committee (co-chair)
- Reviewer: ad hoc reviewer for US Dept. of Agriculture aquaculture grant proposals and Northeast Regional Association of Coastal Ocean Observing Systems, and various journal including Journal of Ocean and Coastal Economics, Journal of Aquaculture Economics and Management, and WMU Journal of Maritime Affairs

PUBLISHED PAPERS AND REPORTS

Harmon, K. and H.L. Kite-Powell. Submitted. Oil infrastructure and ecosystem services in the western Arabian Gulf. *PLOS One* .

Kite-Powell, H.L., C. Brehme, S. Kraus, P. McCarron, H. Tetrault, and B. Wikgren. In prep. The spatial and temporal distribution of risk to Right Whales from lobster fishing gear off the coast of Maine.

Kite-Powell, H.L., Y. al-Ghamdi, A. Flifli, and K. Forrester. In prep. Sport fishing activity and landings on the Red Sea coast of the Kingdom of Saudi Arabia. *King Saud University Journal of Science* .

Wikgren, B., H.L. Kite-Powell, and S. Kraus. 2014. Modeling the distribution of the North Atlantic right whale (*Eubalaena glacialis*) off coastal Maine by areal co-kriging. *Endangered Species Research* 24:21-31. doi: 10.3354/esr00579

Kite-Powell, H.L., M. Rubino, and B. Morehead. 2013. The future of US seafood supply. *Aquaculture Economics and Management* 17(3):228-250. DOI:10.1080/13657305.2013.812691

Hoagland, P., H.L. Kite-Powell, D. Jin, and A.R. Solow. 2013. Supply-side approaches to the economic valuation of coastal and marine habitat in the Red Sea. *Journal of King Saud University – Science* 25:217-228.

Lindell, S.R., S. Miner, C. Goudey, H.L. Kite-Powell, and S. Page. 2012. Acoustic conditioning and ranching of Black Sea Bass *Centropristis striata* in Massachusetts, USA. In *Proceedings of the 39th Scientific Symposium of the UJNR Aquaculture Panel, Kagoshima, Japan* Bull. Fisheries Research Agency. No. 35, 103-110.

Jin, D., H.L. Kite-Powell, P. Hoagland, and A.R. Solow. 2012. A bioeconomic analysis of traditional fisheries in the Red Sea off the coast of the Kingdom of Saudi Arabia. *Marine Resource Economics* 27(2):137-148.

Jin, D., H.L. Kite-Powell, and W. Talley. 2012. U.S. Ship Accident Research. Chapter 4 in W. Talley, ed., *Maritime Safety, Security and Piracy*.

Cooley, S.R., N. Lucey, H.L. Kite-Powell, and S.C. Doney. 2012. Nutrition and income from molluscs today imply vulnerability to ocean acidification tomorrow. *Fish and Fisheries* 13(2), 182-215, doi: 10.1111/j.1467-2979.2011.00424.x

Hoagland, P., D. Jin, and H.L. Kite-Powell. 2012. The costs of beach replenishment along the US Atlantic coast. *Journal of Coastal Research* 28(1A):199-204.
<http://www.jcronline.org/doi/abs/10.2112/JCOASTRES-D-11-00066.1>

Ralston, E.P., H.L. Kite-Powell, and A. Beet. 2011. An estimate of the cost of acute health effects from marine pathogens and toxins in the United States. *Water and Health* 9(4):680-694. doi:10.2166/wh.2011.157

Kite-Powell, H.L. 2011. The value of ocean surface wind information for maritime commerce. *Marine Technology Society Journal* 45(1):75-84.

Cooley, S.R., H.L. Kite-Powell, and S.C. Doney. 2009. Ocean acidification's potential to alter global marine ecosystem services. *Oceanography* 22(4):172-181.

Kite-Powell, H.L. 2009. Economic considerations in the design of ocean observing systems. *Oceanography* 22(2):44-49.

Kite-Powell, H.L. 2009. A global perspective on the economics of ocean acidification. *Currents: The Journal of Marine Education* 25(1):24-28.

Kite-Powell, H.L., L.E. Fleming, L.C. Backer, E. Faustman, P. Hoagland, A. Tsuchiya, L. Younglove, B.A. Wilcox, and R.J. Gast. 2008. Linking the oceans to public health: current efforts and future directions. *Environmental Health* 7(Suppl 2):S6. <http://www.ehjournal.net/supplements/7/S2>

Talley, W.K., D. Jin, and H.L. Kite-Powell. 2008. Determinants of the damage cost and injury severity of ferry vessel accidents. *WMU Journal of Maritime Affairs* 7(1):175-188.

Kite-Powell, H.L., C.S. Colgan, and R. Weiher. 2008. Estimating the economic benefits of regional ocean observing systems. *Coastal Management Journal* 36(2):125-145.

Jin, D., H.L. Kite-Powell and P. Hoagland. 2007. Anticipating the growth of an ocean aquaculture industry. *Agriculture Economics and Management* 11:225-242.

Talley, W.K., D. Jin, and H.L. Kite-Powell. 2006. Determinants of the severity of passenger vessel accidents. *Maritime Policy and Management* 33(2):173-186.

Jin, D., H.L. Kite-Powell and P. Hoagland. 2005. Risk assessment in open-ocean aquaculture: a firm-level investment-production model. *Aquaculture Economics and Management* 9(3):369-387.

Talley, W.K., D. Jin, and H.L. Kite-Powell. 2005. Determinants of crew injuries in vessel accidents. *Maritime Policy and Management* 32(3):263-278.

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Jin, D., P. Hoagland, and H.L. Kite-Powell. 2003. A Model of the optimal scale of open-ocean aquaculture. In Bridger, C. and B. Costa-Pierce, eds., *Open-Ocean Aquaculture: From Research to Reality*. Charleston, SC: World Aquaculture Society.

Kite-Powell, H.L., P. Hoagland, D. Jin, and K. Murray. 2003. Economics of open ocean growout of shellfish in New England: sea scallops and blue mussels. Pages 293-306 in Bridger, C. and B. Costa-Pierce, eds., *Open-Ocean Aquaculture: From Research to Reality*. Charleston, SC: World Aquaculture Society.

Kite-Powell, H.L., P. Hoagland, D. Jin, and K. Murray. 2003. Open ocean growout of finfish in New England: a bioeconomic model. Pages 319-324 in Bridger, C. and B. Costa-Pierce, eds., *Open-Ocean Aquaculture: From Research to Reality*. Charleston, SC: World Aquaculture Society.

Mmochi, A.J., N. Mozes, H.L. Kite-Powell, A.M. Dubi, H. Gordin, N. Jiddwi, G. Kissil, F. Msuya, and J. Mwangamilo. 2002. Design and preliminary results of integrated mariculture pond system at Makoba, Zanzibar. *25 Anniversary Symposium Proceedings, Institute of Marine Science, Zanzibar, Tanzania*.

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Jin, D. and H.L. Kite-Powell. 1998. Cost assessment for abyssal seafloor waste isolation. *Journal of Marine Systems* 14:289-303.

Kite-Powell, H.L., D. Jin, and S. Farrow. 1997. Expected safety benefits of electronic charts and integrated navigation systems. *Journal of Transport Economics and Policy* 31(2):147-62.

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National Research Council, Committee on Assessment of Technical Issues in the Automated Nautical Charting System (H.L. Kite-Powell, member). 1996. *Technical issues in NOAA's nautical charting program*. Washington: National Academy Press.

Jin, D. and H.L. Kite-Powell. 1996. The prospects of deep ocean waste disposal: an economic analysis. *Journal of Marine Environmental Engineering* 3:31-46.

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Kite-Powell, H.L. and A.G. Gaines. 1995. Provisions and evaluation of the IMO performance standard for Electronic Chart Display and Information Systems. *Journal of Maritime Law and Commerce* 26(2):197-214.

Kite-Powell, H.L. and A.G. Gaines. 1995. Evaluation of a technological standard for electronic chart systems. *Marine Policy* 19(3):185-97.

Kite-Powell, H.L. and A.R. Solow. 1994. A Bayesian approach to estimating benefits of improved forecasts. *Meteorological Applications* 1:351-54.

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Broadus, J., P. Hoagland, and H.L. Kite-Powell. 1988. *Determining the structure of the United States marine instrumentation industry and its position in the world industry*. WHOI Technical Report 88-55.

Kite-Powell, H.L. 1988. *A broad-scale profile of the marine advanced technology industry*. WHOI Technical Report 88-6.

Other Publications and Reports

Kite-Powell, H.L. and R. Morrison. 2012. Usage tracking for OOS evaluation and enhancement. White Paper, IOOS Summit, Washington D.C.

Kite-Powell, H.L. 2012. Carrying capacity and economic considerations for shellfish aquaculture. New England Estuarine Research Society Meeting, Plymouth MA (April).

Brehme, C., H.L. Kite-Powell, S. Kraus, K. Lagueux, P. McCarron, H. Tetreault, and B. Wikgren. 2012. Estimates of entanglement risk for lobster fishing gear off the coast of Maine. Abstract/presentation at the *North Atlantic Right Whale Consortium Meeting*, New Bedford, Massachusetts.

Kite-Powell, H.L. 2012. Maximizing the Economic Return from Northeast Regional Association of Coastal Ocean Observing Systems (NERACOOS): Prioritized End User Needs and Tools for Tracking Use and Value of Observing System Information. Project report to NOAA IOOS Office.

Kite-Powell, H.L. 2012. Maritime transportation and marine spatial planning in the northeastern United States. White paper prepared for the Northeast Regional Ocean Council.

Brehme, C., H.L. Kite-Powell, S. Kraus, K. Lagueux, P. McCarron, H. Tetreault, and B. Wikgren. 2011. A model of entanglement risk for lobster fishing gear off the coast of Maine. Abstract/presentation at the *North Atlantic Right Whale Consortium Meeting*, New Bedford, Massachusetts.

Juma, S., N. Jiddawi, and H.L. Kite-Powell. 2011. Status of *Anadara antiquata* collection in Fumba, Unguja, and the first hatchery-based shellfish production in Zanzibar. Poster presentation at WIOMSA Scientific Symposium, Mombasa, Kenya, October.

Kite-Powell, H.L. 2011. Estimated effect of the small dredge exemption on scallop landings. Report to Pike Associates. August.

Kite-Powell, H.L. 2011. Mussel farm economics and seasonality in blue mussel supply. Report to Marine Biological Laboratory, Woods Hole, July.

Hoagland, P., D. Jin, and H.L. Kite-Powell. 2011. Farm-gate price models, seafood pricing, and economic impacts. Report prepared for Information & Simulation Systems for aquaculture development models for US coastal waters. March.

Cooley, S., S. Doney, H.L. Kite-Powell, and N. Lucey. 2010. Mollusk harvests today, vulnerability to ocean acidification tomorrow? Abstract presented at Geophysical Society of America Meeting, Denver, November; and published in *GSA Abstracts with Programs* 42(5).

Karney, R., S. Bennett, J. Brawley, D. Grossman, N. Jiddawi, H.L. Kite-Powell, S.J. Shaaban, and A. Yberg. 2010 Shellfish hatchery in Zanzibar? Insha'allah! Abstract/presentation at the 13th International Conference on Shellfish Restoration, Charleston, November.

Kite-Powell, H.L., R. Karney, and J. Brawley. 2010. Hatchery-based production of shellfish on Zanzibar. Abstract/presentation at the 13th International Conference on Shellfish Restoration, Charleston, November.

Kite-Powell, H.L. 2010. Estimated national-scale benefits from NOAA PORTS information. NOAA CO-OPS, Washington DC.

Kite-Powell, H.L. 2009. Estimating economic benefits from NOAA PORTS information: a case of the Columbia River. NOAA CO-OPS, Washington DC.

Brehme, C., H.L. Kite-Powell, S. Kraus, K. Lagueux, and P. McCarron. 2008. Mitigating risk to whales of lobster fishing off the coast of Maine. Abstract/presentation at the *North Atlantic Right Whale Consortium Meeting*, New Bedford, Massachusetts.

Kite-Powell, H.L. 2008. Benefits to maritime commerce from ocean surface vector wind observations and forecasts. Report submitted to NOAA National Weather Service.

Kite-Powell, H.L., P. Hoagland, and D. Jin. 2008. US Gulf of Maine herring fisheries and market trends, 1990-2007. Report to Bumble Bee Foods LLC.

Kite-Powell, H.L. 2007. Estimating economic benefits from NOAA PORTS information: a case of Houston/Galveston. The Port of Houston Authority, Houston, Texas.

Kite-Powell, H.L. 2007. Use and value of nautical charts and nautical chart data in the United States. Report to NOAA Coast Survey. Marine Policy Center, WHOI.

Kite-Powell, H.L., P. Hoagland, and D. Jin. 2007. US Gulf of Maine herring fisheries and market trends, 1990-2006. Report to Bumble Bee Foods LLC.

Kite-Powell, H.L., A. Knowlton, and M. Brown. 2007. Modeling the effect of vessel speed on Right Whale ship strike risk. Report to NOAA National Marine Fisheries Service. Marine Policy Center, WHOI.

Kite-Powell, H.L., P. Hoagland, D. Jin, D. Angel, H. Clark, and K. Kroeger. 2007. Mitigating the effects of excess nutrients in coastal waters through bivalve aquaculture and harvesting. Project report executive summary to The Cooperative Institute for Coastal and Estuarine Environmental Technology. WHOI Marine Policy Center, Woods Hole, Mass.

Hoagland, P., M.E. Schumacher, H.L. Kite-Powell and J.A. Duff. 2006. Legal and regulatory framework for siting offshore wind energy facilities. Project No. 2004-OWEC-01. Westborough, Mass.: Offshore Wind Energy Collaborative Pilot Projects Grant Program, Massachusetts Technology Collaborative (30 June).

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Kite-Powell, H.L. 2000. Electronic commerce in maritime shipping: beneath the hype, a transition is underway. *Marine Money* October.

Adams, R.M, M. Brown, C. Colgan, N. Flemming, H. Kite-Powell, B. McCarl, J. Mjelde, A. Solow, T. Teisberg, and R. Weiher. 2000. *The economics of ISOOS: benefits and the rationale for public funding*. Office of Policy and Strategic Planning, National Oceanic and Atmospheric Administration, U.S. Department of Commerce, Washington D.C.

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