

# **SWFSC Fisheries Ecology Division**

## **Fisheries Economics Team, Publications 2008-present**

### **In press**

Miller, Rebecca R., John C. Field, Jarrod A. Santora, Melissa H. Monk, Rosemary Kosaka, and Cynthia Thomson.

In press. Spatial valuation of California marine fisheries as a ecosystem service. *Canadian Journal of Fisheries and Aquatic Sciences*.

### **2017**

Elbakidze, Levan, Benjamin Fa'anunu, Aaron Mamula, and R. Garth Taylor.

2017. Evaluating economic efficiency of a water buyback program: The Klamath irrigation project. *Resource and Energy Economics* 48:68-82.

Foster, T., N. Brozovic, and C. Speir.

2017. The buffer value of groundwater when well yield is limited. *Journal of Hydrology* 547:638-649.

Lee, Min-Yang, Cameron Speir, Andrew Carr-Harris, and Sharon Benjamin.

2017. Geographic concentration of the Atlantic sea scallop fishery. *Review of Regional Studies* 47:25-46.

Wallmo, Kristy, and Rosemary Kosaka.

2017. Using choice models to inform large marine protected area design. *Marine Policy* 83:111-117.

### **2016**

He, Xi, and John Field (eds.), Aaron Mamula, Susan Sogard, William Watson, Nick Wegner, and Mary Yoklavich.

2016. NMFS Southwest Fisheries Science Center: Draft agency report to the Technical Subcommittee of the Canada-U.S. Groundfish Committee. In: Report of the Technical Subcommittee of the Canada-United States Groundfish Committee: 57th annual meeting of the TSC (April 26-27, 2016, Newport, Oregon), p 308-326. Pacific States Marine Fisheries Commission.

Speir, Cameron, Jae Han, and Nicholas Brozovic.

2016. Spatial dynamic optimization of groundwater use with ecological standards for instream flow. *Water Economics and Policy* 2(3):1650013 (23 p.).

## **2015**

Bibb, Sally, Scott Bloom, Ayeisha Brinson, Mark Chandler, Guy Davenport, Kelly Denit, Gerard Dinardo, Joshua Gange, Steve Giordano, Alexis Gutierrez, John Hoey, Steve Ignell, Rosemary Kosaka, Caroline Park, Tauna Rankin, Heather Sagar, and Ryan Silva.  
2015. Cooperative research and cooperative management: a review with recommendations. NOAA Technical Memorandum NMFS-F/SPO-156. 78 p.

Bisack, Kathryn D., Dale E. Squires, Douglas W. Lipton, James R. Hilger, Daniel S. Holland, Denise H. Johnson, Min-Yang Lee, Rebecca Lent, Daniel K. Lew, Gisele Magnusson, Minling Pan, Lew E. Queirolo, Stephen Stohs, Cameron L. Speir, and Kristy A. Wallmo, with contributions from Lisa Ballance and Sarah Mesnick.  
2015. Proceedings of the 2014 NOAA Economics of Protected Resources Workshop (September 9-11, 2014, La Jolla, California). U.S. Department of Commerce, NOAA Technical Memorandum NMFS-NE-233. 179 p.

He, Xi, and John Field (eds.), John Hyde, Susan Sogard, Cindy Thomson, William Watson, and Mary Yoklavich.  
2015. NMFS Southwest Fisheries Science Center: Draft agency report to the Technical Subcommittee of the Canada-U.S. Groundfish Committee. In: Report of the Technical Subcommittee of the Canada-United States Groundfish Committee: 56th annual meeting of the TSC (April 28-29, 2015, Sidney, British Columbia, Canada), p. 288-307. Pacific States Marine Fisheries Commission.

Mamula, Aaron, and Trevor Collier.  
2015. Multifactor productivity, environmental change, and regulatory impacts in the U.S. West Coast groundfish trawl fishery, 1994-2013. *Marine Policy* 62:326-336.

Satterthwaite, William, Eric Anderson, Matthew Campbell, John Carlos Garza, Michael Mohr, Shawn Narum, and Cameron Speir.  
2015. Multidisciplinary evaluation of the feasibility of parentage-based genetic tagging (PBT) for management of Pacific salmon. Report to the Pacific Salmon Commission. 135 p.

Speir, Cameron, Aaron Mamula, and Daniel Ladd.  
2015. Effects of water supply on labor demand and agricultural production in California's San Joaquin Valley. *Water Economics and Policy* 1(2):1550003 (27 p.).

Speir, Cameron, Sam Pittman, and David Tomberlin.  
2015. Uncertainty, irreversibility and the optimal timing of large-scale investments in protected species habitat restoration. *Frontiers in Marine Science* 2:art.101 (11 p.).

Thomson, Cynthia J.  
2015. California's commercial fisheries: 1981-2012. *Marine Fisheries Review* 77(3):48-72.

Thunberg, Eric, John Walden, Juan Agar, Ron Felthoven, Abigail Harley, Stephen Kasperski, Jean Lee, Todd Lee, Aaron Mamula, Jessica Stephen, and Andy Strelcheck.  
2015. Measuring changes in multi-factor productivity in U.S. catch share fisheries. *Marine Policy* 62:294-301.

## **2014**

Aydin, Kerim, Kenneth Frank, Martin Dorn, Daniel Howell, Galen Johnson, Pete Lawson, Andre Punt, Will Satterthwaite, Tien-Shui Tsou, Cindy Thomson, and Reg Watson.  
2014. Atlantis model for the California Current: Report of Methodology Review Panel meeting. November 2014 Briefing Book, agenda item H.1.a, attachment 1. Pacific Fishery Management Council, Portland, Oregon. 33 p.

Breslow, Sara, Dan Holland, Phil Levin, Karma Norman, Melissa Poe, Cindy Thomson, Raz Barnea, Penny Dalton, Nives Dolsak, Correigh Greene, Kristin Hoelting, Stephen Kasperski, Rosemary Kosaka, Daniel Ladd, Aaron Mamula, Stacey Miller, Brit Sojka, Cameron Speir, Scott Steinbeck, and Nick Tolimieri.

2014. Human dimensions of the CCIEA: a summary of concepts, methods, indicators, and assessments. In: C.J. Harvey et al. (eds.), *The California Current Integrated Ecosystem Assessment: Phase III report*. NOAA National Marine Fisheries Service.

Collier, Trevor C., Aaron Mamula, and John Ruggiero.

2014. Estimation of multi-output production functions in commercial fisheries. *Omega* 42(1):157-165.

He, Xi, and John Field (eds.), John Hyde, Susan Sogard, Andrew Thompson, Cindy Thomson, and Mary Yoklavich.

2014. NMFS Southwest Fisheries Science Center: Draft agency report to the Technical Subcommittee of the Canada-U.S. Groundfish Committee. In: Report of the Technical Subcommittee of the Canada-United States Groundfish Committee: 55th annual meeting of the TSC (April 29-30, 2014, Seattle, Washington), p. 287-300. Pacific States Marine Fisheries Commission.

Speir, Cameron, Caroline Pomeroy, and Jon G. Sutinen.

2014. Port level fishing dynamics: assessing changes in the distribution of fishing activity over time. *Marine Policy* 46:171-191.

Walden, John, Juan Agar, Ron Felthoven, Abigail Harley, Stephen Kasperski, Jean Lee, Todd Lee, Aaron Mamula, Jessica Stephen, Andy Strelcheck, and Eric Thunberg.

2014. Productivity change in U.S. catch share fisheries. NOAA Technical Memorandum NMFS-F/SPO-146. 137 p.

Wallmo, K., and R. Kosaka

2014. Public preferences for marine protected areas off the U.S. west coast: The significance of restrictions and size on economic value. NOAA Technical Memorandum NMFS-F/SPO-144. 96 p.

Wells, Brian, Tom Wainwright, Cynthia Thomson, Thomas Williams, Nathan Mantua, Lisa Crozier, Sara Breslow, and Kurt Fresh.

2014. Pacific salmon. In: C.J. Harvey et al. (eds.), *The California Current Integrated Ecosystem Assessment: Phase III report*. NOAA National Marine Fisheries Service.

## **2013**

He, Xi, and John Field (eds.), John Hyde, Andrew Thompson, Cindy Thomson, Susan Sogard, and Mary Yoklavich.

2013. NMFS Southwest Fisheries Science Center: Draft agency report to the Technical Subcommittee of the Canada-U.S. Groundfish Committee. In: Report of the Technical Subcommittee of the Canada-United States Groundfish Committee: 54th annual meeting of the TSC (April 30-May 1, 2013, Seattle, Washington), p. 261-273. Pacific States Marine Fisheries Commission.

Howard, Jennifer, Eleanora Babij, Roger Griffis, Brian Helmuth, Amber Himes-Cornell, Paul Niemier, Michael Orbach, Laura Petes, Stewart Allen, Guillermo Auad, Carol Auer, Russell Beard, Mary Boatman, Nicholas Bond, Timothy Boyer, David Brown, Patricia Clay, Katherine Crane, Scott Cross, Michael Dalton, Jordan Diamond, Robert Diaz, Quay Dortch, Emmett Duffy, Deborah Fauquier, William Fisher, Michael Graham, Benjamin Halpern, Lara Hansen, Bryan Hayum, Samuel Herrick, Anne Hollowed, David Hutchins, Elizabeth Jewett, Di Jin, Nancy Knowlton, Dawn Kotowicz, Trond Kristiansen, Peter Little, Cary Lopez, Philip Loring, Rick Lumpkin, Amber Mace, Kathryn Mengerink, J. Ru Morrison, Jason Murray, Karma Norman, James O'Donnell, James Overland, Rost Parsons, Neal Pettigrew, Lisa Pfeiffer, Emily Pidgeon, Mark Plummer, Jeffrey Polovina, Josie Quintrell, Teresa Rowles, Jeffrey Runge, Michael Rust, Eric Sanford, Uwe Send, Merrill Singer, Cameron Speir, Diane Stanitski, Carol Thornber, Cara Wilson, and Yan Xue.

2013. Oceans and marine resources in a changing climate. *Oceanography and Marine Biology: An Annual Review* 51: 71-192.

Kaplan, Isaac C., Dan S. Holland, Ian G. Taylor, Kurt L. Fresh, Phillip S. Levin, Iris A. Gray, Jerry Leonard, Kristin Marshall, Blake E. Feist, Mark L. Plummer, Cynthia Thomson, Noble Hendrix, Elizabeth A. Fulton, Christopher J. Brown, John C. Field, and Anthony D. Smith. 2013. Management testing and scenarios in the California Current. In: Phillip S. Levin, Brian K. Wells, and Mindi B. Sheer (eds.), *Integrated ecosystem assessment of the California Current: Phase II report 2012*, p. 730-778. U.S. NOAA National Marine Fisheries Service.

Khanna, Madhu, and Cameron Speir.

2013. Motivations for proactive environmental management. *Sustainability* 5(6): 2664-2692.

Mamula, Aaron, and John Walden (eds.).

2013. Proceedings of the National Marine Fisheries Service Productivity Workshop (Santa Cruz, CA June 11-12, 2012). NOAA Technical Memorandum NMFS-SWFSC-503. 52 p.

Thomson, Cynthia.

2013. Appendix MS7: Commercial fishing economics technical report for the Secretarial Determination on whether to remove four dams on the Klamath River in California and Oregon. In: Phillip S. Levin, Brian K. Wells, and Mindi B. Sheer (eds.), *Integrated ecosystem assessment of the California Current: Phase II report 2012*, p. 902-958. U.S. NOAA National Marine Fisheries Service.

## **2012**

Barrett, Brian, Rosemary Kosaka, and David Tomberlin.

2012. Road surface erosion on the Jackson Demonstration State Forest: results of a pilot study. In: Proceedings of the Coast Redwood Forests in a Changing California: a symposium for scientists and managers, p. 13-21. U.S. Forest Service, Pacific Southwest Research Station, General Technical Report PSW-GTR-238.

He, Xi, and John Field (eds.), E.J. Dick, John Hyde, Janet Mason, Andrew Thompson, Cindy Thomson, and Mary Yoklavich.

2012. NMFS Southwest Fisheries Science Center: Agency report to the Technical Subcommittee of the Canada-U.S. Groundfish Committee. In: Report of the Technical Subcommittee of the Canada-United States Groundfish Committee: 53rd annual meeting of the TSC (May 1-2, 2012, Newport Beach, California), p. 249-268. Pacific States Marine Fisheries Commission.

Mason, Janet, Rosemary Kosaka, Aaron Mamula, and Cameron Speir.

2012. Effort changes around a marine reserve: The case of the California Rockfish Conservation Area. *Marine Policy* 36(5): 1054-1063.

## **2011**

Thomson, C.

2011. Monitoring fishery effects of salmonid habitat restoration [abstract]. In: Lyman Thorsteinson, Scott VanderKooi, and Walter Duffy (eds.), Proceedings of the Klamath Basin Science Conference (Medford, Oregon, February 1-5, 2010), p. 208-209. U.S. Geological Survey, Open File Report 2011-1196.

Thomson, C.

2011. Evaluating economic effects on fisheries association with Klamath dam removal [abstract]. In: Lyman Thorsteinson, Scott VanderKooi, and Walter Duffy (eds.), Proceedings of the Klamath Basin Science Conference (Medford, Oregon, February 1-5, 2010), p. 218. U.S. Geological Survey, Open File Report 2011-1196.

## **2010**

Ralston, Steve, E.J. Dick, and John Field (eds.), David Demer, Carlos Garza, John Hyde, Xi He, Alec MacCall, Donald Pearson, Cynthia Thomson, Susan Sogard, and Mary Yoklavich.

2010. NMFS Southwest Fisheries Science Center: Draft agency report to the Technical Subcommittee of the Canada-U.S. Groundfish Committee. In: Report of the Technical Subcommittee of the Canada-United States Groundfish Committee: 51st annual meeting of the TSC (May 5-6, 2010, Nanaimo, British Columbia), p. 212-232. Pacific States Marine Fisheries Commission.

Thomson, Cynthia J.

2010. Data requirements for integrating socioeconomic considerations into regulatory analysis: examples from California commercial fisheries. In: Managing data-poor fisheries: case studies, models and solutions (1-4 December 2008, Berkeley, California), p. 307-326. California Sea Grant College Program.

Tomberlin, David, and Garth Holloway.

2010. Bayesian hierarchical estimation of technical efficiency in a fishery. *Applied Economics Letters* 17(2): 201-204.

## **2009**

Dick, E.J., Anne Allen, and John Field (eds.), Carlos Garza, John Hyde, David Demer, Cynthia Thomson, William Watson, and Mary Yoklavich.

2009. NMFS Southwest Fisheries Science Center: Draft agency report to the Technical Subcommittee of the Canada-U.S. Groundfish Committee. In: Report of the Technical Subcommittee of the Canada-United States Groundfish Committee: Fiftieth annual meeting of the TSC (May 5-6, 2009, Juneau, Alaska), p. 214-230. Pacific States Marine Fisheries Commission, Portland, Oregon.

## **2008**

Thomson, C. J., and C. Pinkerton.

2008. Habitat restoration cost references for salmon recovery planning. NOAA Technical Memorandum NMFS-SWFSC-425. 75 p.