**ANNA E. STEEL**

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Department of Wildlife, Fish, and Conservation Biology

University of California, Davis

**EDUCATION\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**2015** (Degree awarded) **Ph.D.** in Ecology, University of California, Davis

*Dissertation*: “Movements of juvenile Chinook salmon in the Sacramento watershed, California”

*Committee*: Drs. A. Peter Klimley (Chair), J. Louise Conrad (CA Dept Water Resources), Peter B. Moyle

**2001-2005 B.A.** in Biology, Magna cum laude with honors, Whitman College

*Undergraduate Thesis*: “Pollination activity in a milkweed (*Asclepias*) hybrid zone”

*Whitman Advisors:* Drs. Charles Drabek, Joel Carlin (currently with Gustavus Adolphus College)

*Research PI*: Dr. Mark Fishbein (currently at Oklahoma State University, Stillwater, OK)

**PROFESSIONAL HISTORY \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**2020 – present Assistant Project Scientist,** Ecophysiology Lab, UC Davis

Developed, coordinated, and managed research on behavioral ecology and physiology of juvenile sturgeon with direct application to conservation and management, including experimental evaluations of contaminant exposure on California sturgeon. Recruited, supervised, and mentored junior researchers.

 PI: Nann Fangue (UC Davis, Dept. of Fish, Wildlife, and Conservation Biology)

**2017 – 2019 Postdoctoral Researcher,** Ecophysiology Lab, UC Davis

Managed research on behavioral ecology and physiology of juvenile sturgeon and salmon with direct application to conservation and management needs. Conducted experimental evaluations of vulnerability to diversion structures and predator-prey dynamics. Also participated in studies of salmon population dynamics in a local watershed. Mentored junior researchers.

 PI: Nann Fangue (UC Davis, Dept. of Fish, Wildlife, and Conservation Biology)

**2015 - 2016 Postdoctoral Researcher,** Dept of Environmental Science and Policy, UC Davis

Conducted analyses of survival rates and movement patterns of juvenile salmon in the Sacramento River, CA to parameterize an individual-based fish behavioral model (ELAM; Goodwin et al 2006), as well as address role of individual variation in movement. Results will be used by resource managers to enhance and guide planning processes for floodplain activation and water operations.

 PI: David Smith (US Army Engineer Research and Development Center)

 UC Davis Host: Andy Sih (UC Davis, Dept of Environmental Science and Policy)

**2014 - 2015 Research Assistant,** Center for Watershed Sciences, UC Davis

Designed and managed research on invertebrate community response to flow disturbance to aid in designing environmental flow regimes in managed rivers.

 PI: Sarah Yarnell (UC Davis, Center for Watershed Sciences)

**2011 Visiting Research Assistant**, Universidad Catolica de Chile, Santiago, Chile

Analyzed catch data to develop models of population trends of benthic marine resources, and address the effect of new legal protections on populations outside of managed areas.

 PI: Miriam Fernandez (Estación Costera de Investigaciónes Marinas)

**2008 - 2014 Doctoral Researcher,** Biotelemetry Laboratory, UC Davis

Conducted research and analysis with telemetry equipment to examine the movement behavior and survival of largemouth bass and juvenile Chinook salmon, with emphasis on the influence of altered habitats.

 PI: A. Peter Klimley (UC Davis, Dept. of Fish, Wildlife, and Conservation Biology)

**2007 - 2008 Research Intern,** Point Blue (formerly Point Reyes Bird Observatory)

Conducted various surveys of avian populations, including mist-netting, nest searching, territory mapping, and area searches. Worked at both restoration and long-term monitoring sites.

 PI: A. Peter Klimley (UC Davis, Dept. of Fish, Wildlife, and Conservation Biology)

 Supervisors: Alicia Young, Renée Cormier

**2004 REU Research Student,** Mississippi State University

Observed insect pollinator activity on two species of *Asclepias* (Milkweed) occurring in a hybridization zone, to evaluate potential vectors of hybridization. Also collected and extracted DNA samples to assess extent of hybridization and introgression.

 PI: Mark Fishbein

**GRANTS\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

2021-2024 California Dept. Fish and Wildlife, Proposition 1 Delta Water Quality and Ecosystem Restoration Grant Program, “Identifying key swimming criteria for safe and timely passage of juvenile sturgeon” Co-PI ($569,222)

2020-2022 California Dept. Fish and Wildlife, Proposition 1 Delta Water Quality and Ecosystem Restoration Grant Program, “Effects of Multiple Environmental Stressors on Ecological Performance of Early Life Stage Sturgeon” Co-PI ($957,427)

2016 Western Division Am. Fish Soc, Young Professional Travel Award ($482)

2014 California Fly Fishers Unlimited, Bob Bitner merit scholarship ($2,600)

2012 Diablo Valley Fly Fishermen, Bob Wisecarver merit scholarship ($2,500)

2010 Marin Rod and Gun Club, merit scholarship ($1,500)

2008-2012 UC Davis, Graduate Group in Ecology, grants ($32,560)

2001-2005 Whitman College, merit scholarships ($44,000)

**PEER REVIEWED PUBLICATIONS\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Steel, Anna E**., James J. Anderson, Brian Mulvey, David Smith. 2020. Applying the mean free-path length model to juvenile Chinook salmon migrating in the Sacramento River, California. Environmental Biology of Fishes, 103:1603-1617. doi: 10.1007/s10641-020-01046-8

Willmes, M. et al. **Anna E. Steel,** 2020. Geochemical tools identify the origins of Chinook Salmon returning to a restored creek. Fisheries. doi: 10.1002/fsh.10516

Hansen, Matthew J., Issac Y. Ligocki, Ken E. Zillig, **Anna E. Steel**, Anne E. Todgham, Nann A. Fangue. 2020. Risk-taking and locomotion in foraging threespine sticklebacks (*Gasterosteus aculeatus*): the effect of nutritional stress is dependent on social context. Behavioral Ecology and Sociobiology 74(1): 1-12.

Baird, Sarah E., **Anna E. Steel,** Dennis E. Cocherell, Jamilynn B. Poletto, Rhiannon Follenfant, Nann A. Fangue. 2020. Experimental assessment of predation risk for juvenile green sturgeon, *Acipenser medirostris*, by two predatory fishes. Journal of Applied Ichthyology 36(1): 14-24.

Hansen, Matthew J., **Anna E. Steel,** Dennis E. Cocherell, Paul H. Patrick, Michael Sills, Steven J. Cooke, Kara J. Carr, M. Levant Kavvas, Nann A. Fangue. 2019. Experimental evaluation of the effect of a light-emitting diode devide on Chinook salmon smolt entrainment in a simulated river. Hydrobiologia, 841(1): 191-203. doi: 10.1007/s10750-019-04022-1

McInturf, Alexandra G., **Anna E. Steel**, Michele Buckhorn, Philip Sandstrom, Christina J. Slager, Nann A. Fangue, A. Peter Klimley, Damien Caillaud. 2019. Use of a hydrodynamic model to examine behavioral response of broadnose sevengill sharks (*Notorynchus cepedianus*) to estuarine tidal flow. Environmental Biology of Fishes, 102(9): 1149-1159.

**Steel, Anna E.**, Mathew J. Hansen, Dennis E. Cocherell, Nann A. Fangue. 2019. Behavioral responses of juvenile white sturgeon (*Acipenser transmontanus*) to manipulation of nutritional state and predation risk. Environmental Biology of Fishes, 102(5): 817-827. doi: 10.1007/s10641-019-00873-8

Steel, Anna E., Michael Thomas, A. Peter Klimley. 2019. Reach specific use of spawning habitat by adult green sturgeon (*Acipenser meditostris*) under different operation schedules at Red Bluff Diversion Dam. Journal of Applied Ichthyology, 35(1): 22-29. doi: 10.1111/jai.13602

Baird, Sarah E., Dennis Cocherell, **Anna E. Steel,** Joe J. Cech, Nann A. Fangue. 2018.Native Chinook Salmon, *Oncorhynchus tshawytscha*, and non-native brook trout, *Salvelinus fontinalis*, prefer similar water temperatures. Journal of Fish Biology, 93(5): 1000-1004. doi: 10.1111/jfb.13810

Johnston, Myfanwy E., **Anna E. Steel**, Matthew Espe, Ted Sommer, A. Peter Klimley, Phillip Sandstrom, David Smith*.* 2018. Survival of juvenile Chinook salmon in the Yolo Bypass and the lower Sacramento River, California. San Francisco Estuary and Watershed Science, 16(2). https://escholarship.org/uc/item/8bq7t7rr

**Steel, Anna E.**, Ryan A Peek, Robert A Lusardi, Sarah M Yarnell. 2017. Associating metrics of hydrologic variability with benthic macroinvertebrate communities in regulated and unregulated snowmelt-dominated rivers. Freshwater Biology, 63(8): 844-858. doi: 10.1111/fwb.12994

**Steel, Anna E.**, Bertrand Lemasson, David L. Smith, and Joshua A. Israel. 2017. Two-dimensional movement patterns of juvenile winter-run and late-fall run Chinook salmon at the Fremont Weir, Sacramento River, CA. US Army Corps of Engineers, Engineering Research and Development Center, Environmental Labs. Vicksburg, MS.

Steel, Zachary L., Anna E. Steel, John Williams, Josh Viers, Pablo Marquet, Olga Barbosa. 2016. Patterns of bird diversity and habitat use in mixed vineyard-matoral landscapes of Central Chile. Ecological Indicators, 73, 345-357.

Singer, Gabriel P., **Anna E. Steel**, David L. Smith, Brian Mulvey. 2015.Two-dimensional (2-D) Acoustic Fish Tracking at River Mile 85, Sacramento River, California – Water Year 2012. US Army Corps of Engineers, Engineering Research and Development Center, Environmental Labs. Vicksburg, MS.

Steel, Anna E., Julia Coates, Alex Hearn, A. Peter Klimley.2014. Performance of an ultrasonic telemetry positioning system under varied environmental conditions. Animal Biotelemetry, 2:15.

**Steel, Anna E.,** Phillip Sandstrom, Patricia Brandes, A. Peter Klimley. 2013. Migration route selection of juvenile Chinook salmon at the Delta Cross Channel, and the role of water velocity and individual movement patterns. Environmental Biology of Fishes, 96(2-3) 215-244.

Stoepler, Teresa M., Andrea Edge, **Anna Steel**, Robin L. O'Quinn, and Mark Fishbein. 2012. Variation in pollination effectiveness in a milkweed (*Asclepias*, Apocynaceae) hybrid zone. American Journal of Botany, 99(3) 1:11.

**TEACHING EXPERIENCE\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Primary Instructor**

2013 winter “Basics in R” (ECL 298) - Dept. Env. Science and Policy, UC Davis

Created and delivered course content to provide an introduction to data manipulation and analysis in the R statistical software program. Students included graduate students, post-doctoral scholars, and faculty members. Course structure followed a ‘flipped-classroom’ design to provide students with in-class opportunities to work through problem sets with the aid of myself, their peers, and teaching assistants.

2013 spring “Conservation Biology” (WFC 154) - Dept. Wildlife, Fish, and Cons. Biol., UC Davis

As co-instructor of this mandatory undergraduate course, I used principles of backwards-design (*sensu* Scientific Teaching by Handelsman et al.) to modify a large lecture-based course of approximately 120 students. The goal was to incorporate greater student engagement during class periods. We utilized strategies such as “think-pair-share” to encourage critical thinking, and small low-consequence assessments to facilitate student self-evaluation. Learning objectives were made explicit to aid students in processing and integrating key information.

2013 summer “Data manipulation and analysis in R” - Wildlife Conservation Society, San Pedro, Belize

Designed a one week workshop for conservation practitioners working with marine ecosystems in the Gulf of Mexico. The goal was to provide attendees with basic knowledge of the R statistical software to enable them to collaborate more effectively and leverage existing datasets to guide conservation actions.

**CAMEOS Teaching Fellow**

 2012-13 CAMEOS program for inquiry based learning - NSF GK-12 program

 Grant awarded to Dr. Susan Williams at Bodega Marine Labs, UC Davis

 Partner teacher: Teri O’Donnell, Honors Biology, Maria Carrillo High School, Santa Rosa, CA

This NSF program placed graduate students into K-12 classrooms to partner with experienced teachers. I was placed with two 9-10th grade biology courses, and designed an inquiry-based curriculum to teach science as a process. I guided small groups of students as they designed, executed, and analyzed their own research during the course of the academic year. All students presented their findings at a professional symposium.

**Guest Lectures**

2019 “Wildlife Ecology and Conservation” (WFC10) -

 Dept. Wildlife, Fish, and Cons. Biol., UC Davis

2015-2018 “Biology and Conservation of Fishes” (WFC 120) -

 Dept. Wildlife, Fish, and Cons. Biol., UC Davis

2015 “Natural History of California” (field course) -

 Sierra Institute, UC Davis Extension Center

2015 “Introduction to Biology: Biodiversity, Evolution, and Ecology” -

 American River Community College, Sacramento, CA

Public Outreach Lectures and Articles

2018 “Chinook Salmon: Return to Putah Creek” CreekSpeak Series; Davis, CA.

2016 “Understanding predation impacts on Delta native fishes” California WaterBlog. May 22, 2016.

https://californiawaterblog.com/2016/05/22/6206/

2015 “Movement ecology in a changing world” Point Blue Palomarin Field Station, Bolinas, CA.

2014 “Floods, food, and fish” California Fly Fishers Unlimited, Sacramento, CA.

2012 “Movement patterns of largemouth bass” Diablo Valley Fly Fishermen, Walnut Creek, CA.

2010 “Fine‐scale movement of largemouth bass in vegetation beds and open water” Marin Rod and Gun Club, San Rafael, CA.

**Teaching Assistant**

2015 winter Naturalist & guide, “Ecogeomorphology of the Grand Canyon” (ECL 290) -

 Dept of Env. Science and Policy, UC Davis

2014 spring Field techniques instructor & field course assistant, “Ecogeomorphology” (WFC 102) -

 Dept of Env. Science and Policy, UC Davis

2012 winter Discussion leader, “Ecological Principles and Applications” (ECL 200b) -

 Dept of Env. Science and Policy, UC Davis

2010 spring Computer laboratory instructor, “Population Dynamics and Estimation” (WFC 122) -

 Dept of Wildlife, Fish, and Cons. Biol., UC Davis

2004-2005 Laboratory assistant, “The Biological World” (BIOL 122) - Biology Dept., Whitman College

**PRESENTATIONS** (A. Steel as presenting author or mentor of junior scientists)**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

PROFESSIONAL

Steel, A.E., S.E. Baird, D.E. Cocherell, R.E. Connon, N.A. Fangue. “Sub-lethal effects of a pyrethroid (bifenthrin) on larval sturgeon” Bay Delta Science Conference, Virtual Meeting. Poser Presentation. April 2021

Steel, A.E., S.E. Baird, D.E. Cocherell, R.E. Connon, N.A. Fangue. “Comparing effects of pyrethroid pesticide exposure on green and white sturgeon” California-Nevada Chapter of the American Fisheries Society, Virtual Annual Meeting. Oral Presentation. March 2021

Steel A.E., M. Hansen, D.E. Cocherell, N.A. Fangue. “Ontogenic shift in juvenile sturgeon behavioral responses to predation risk” American Fisheries Society and The Wildlife Society Joint Annual Conference. Oral Presentation. Oct, 2019.

Jacinto, E.\*, D.E. Cocherell, A.E. Steel, P.B. Moyle, N.A. Fangue, A. Rypel. “Long-term re-establishment of a freshwater ecosystem and fish community in California” American Fisheries Society and The Wildlife Society Joint Annual Conference. Poster. Oct, 2019. \*mentored post-baccalaureate student

Xiong, W.\*, A.E. Steel, D.E. Cocherell, T. Nguyen, K. Carr, A. Ercan, M.L. Kavvas, N.A. Fangue. “Comparing the performance of a fish guidance system for the protection of two sturgeon species in California” American Fisheries Society and The Wildlife Society Joint Annual Conference. Poster. Oct, 2019. \*mentored post-baccalaureate student

Steel A.E., T. Nguyen, D.E. Cocherell, K. Carr, A. Ercan, M.L. Kavvas, N.A. Fangue. “Efficiency of a fish guidance system for juvenile sturgeon at a major water diversion facility” American Fisheries Society and The Wildlife Society Joint Annual Conference. Oral Presentation. Oct, 2019.

Baird S.E.\*, A.E. Steel, D.E. Cocherell, N.A. Fangue. “Size-based susceptibility of juvenile Green Sturgeon (*Acipenser medirostris*) to predatory fish common in the Delta” Interagency Ecological Program, Annual Workshop, Folsom, CA. Oral Presentation. March, 2019. [presenter: A.E. Steel]

Steel A.E., D.E. Cocherell, J. Poletto, N.A. Fangue. “Screening water diversions to protect California sturgeons.” National Sturgeon Workshop, Gloucester, MA. Oral Presentation. May 2018

Steel A.E., T. Nguyen, D.E. Cocherell, K. Carr, M.L. Kavvas, N.A. Fangue. “Juvenile behavior at a model louver, considering effects of size and environmental condition.” Interagency Ecological Program, Annual Workshop, Folsom, CA. Oral Presentation. March, 2018.

Steel A.E., T. Nguyen, D.E. Cocherell, K. Carr, M.L. Kavvas, N.A. Fangue. “Testing hypotheses for low capture rates of juvenile green sturgeon at fish protection facilities: louver efficiency under various conditions” California-Nevada Chapter of the American Fisheries Society, San Luis Obispo, CA. Oral Presentation. February 2018

Steel A.E., S.M. Yarnell, R.A. Peek, R.A. Lusardi. “Natural and anthropogenic variability in spring snowmelt recession flows and association with benthic macroinvertebrate communities.” Society for Freshwater Science, Sacramento, CA. Poster. May 2016.

Steel A.E., J.J. Anderson, D. Smith, B. Mulvey. “Evaluating survival and behavior of juvenile salmon using the mean free-path length model.” Western Division of the American Fisheries Society, Reno, NV. Oral Presentation. March 2016.

Steel A.E. “Exploring null models of animal movement.” University of California Davis, Postdoctoral Symposium, Davis, CA. Poster. May 2015.

Steel A.E., D. Smith, B Mulvey. “Mean free-path length model applied to Sacramento Valley Chinook salmon.” American Fisheries Society, Quebec City, CAN. Oral Presentation. August 2014.

*Awarded Best Student Oral Presentation:* Steel A.E., A.P. Klimley. “Movement Patterns of the largemouth bass in a littoral habitat of the Sacramento-San Joaquin Delta.” Bay-Delta Science Conference, Sacramento, CA. Oral Presentation. October 2012.

Steel, A.E., J. Coates, A. Hearn, A.P. Klimley. “Comparison of ultrasonic positioning systems under various environmental challenges.” American Fisheries Society, St. Paul, MN. Oral Presentation. August 2012.

Steel A.E., A.P. Klimley. “Use of a telemetry positioning system to track largemouth bass (*Micropterus salmoides*) in a littoral habitat.” American Fisheries Society, St. Paul, MN. Poster. August 2012.

Steel, A.E., M. Fernández, F. Vidal, A. Parma, N. Barahona, J. Guerra. “Efecto de la implementación de areas de manejo sobre la abundancia de *Fisurella* spp. en areas de libre acceso.” (translation: “Effect of the implementation of management areas on the abundance of *Fisurella* spp. in open-access areas”) Chilean Society of Conservation Biology, Puerto Varas, Chile. Poster. November 2011.

Steel A.E. , A.P. Klimley. “Fine-scale movement of largemouth bass and potential for open-water predation.” Interagency Ecological Program Workshop, Sacramento, CA. Oral Presentation, May 2010.

Steel, A.E., P. Sandstrom, P. Brandes, A.P. Klimley. “A Fork in the Road: Using a VPS Array to determine the tracks of salmon smolts at the sunction between mainstem Sacramento River and the Delta Cross Channel.” Salmonid Telemetry Symposium, Bodega Bay, CA. Oral Presentation. May 2010.

Steel, A.E.. “Two paths diverged in the Sacramento Delta; fine-scale data on the migratory path decisions of salmonid smolts.” American Fisheries Society, California-Nevada Chapter, Santa Rosa, CA. Poster. April 2008.

**Stephenson, A.E.** “Pollination activity in a milkweed (*Asclepias*) hybrid zone.” Whitman Undergraduate Conference, Walla Walla, WA. Oral Presentation. April 2005.

**Stephenson, A.E**. “The Role of Pollinators in an *Asclepias* Hybrid Zone in Shenandoah National Park, VA.” Murdock Undergraduate Conference, Portland, OR. Poster. November 2004.

**AWARDS and HONORS\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

2012 – 2013 NSF GK-12 Fellow, Bodega Marine Lab, UC Davis

2012 – 2013 Fellow in the ‘Professors for the Future’ program, UC Davis

Oct 2012 Best Student Oral Presentation – 7th Biennial Bay-Delta Science Conference

inducted 2005 Phi Beta Kappa, Walla Walla Chapter

inducted 2005 Order of Waiilatpu, Whitman College

May 2005 Cynthia Lechner Award for Outstanding Biology Senior, Whitman College

**PROFESSIONAL DEVELOPMENT\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

2019 “Mentoring 101” workshop series and certification, UC Davis Graduate Pathways

2013-2014 Professors For The Future, UC Davis

 - instruction on scientific ethics

 - tri-weekly meetings with professional development speakers

2013-2014 CAMEOS, Bodega Marine Lab, UC Davis

 - instruction on pedagogy, based on Scientific Teaching by Handelsman et al.

 - instruction on scientific ethics

2014 “Intro to SEM workshop” Continuing Education Courses, Ecological Society of America

2012 “Exploring Student Diversity” certification, Graduate Teaching Community, UC Davis

2012 “ArcGIS for fisheries biologists” Continuing Education Courses, Am. Fisheries Society

**PROFESSIONAL SERVICE\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

2014 - 2016 Co-chair Education & Outreach Committee, Soc. for Conservation Biology, Davis chapter

2012 - 2013 Officer for Soc. for Conservation Biology, Davis chapter

2009 - 2010 Chair Ecology Graduate Student Association

2010 Planning committee member, UCD Ecology Symposium

2009 - 2010 Co-Chair Ecology Graduate Student Association

**EDITORIAL and REFEREE SERVICE\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Guest Editor: Env. Biology of Fishes, Special Issue: Informing Fisheries Management using Biotelemetry

Reviewer: Canadian Journal of Fisheries and Aquatic Sciences

 Environmental Biology of Fishes

 Animal Biotelemetry

**REFERENCES\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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Peter Klimley, Ph.D.

Ph.D. Advisor

Adjunct Professor, Retired from University of California, Davis

Current: Biotelemetry Consultant, 2870 Eastman Ln, Petaluma, CA 94952

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*Additional:*

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