

Theresa Sinicrope Talley

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Professional Interests Understand the multi-dimensional consequences of the conservation and use of natural ecosystems using integrated ecological and social approaches.

Education

University of California, Davis Ecology Ph.D. 2005
Thesis: Spatial ecology and conservation of the Valley elderberry longhorn beetle

San Diego State University Biology/Ecology M.S. 1992
Thesis: Removal of metals by wetland mesocosms subjected to different hydroperiods

Connecticut College Botany B.A. 1988
Senior thesis: Restoration of an impounded salt marsh in New England
Sea Education Association (Spring 1987)

Appointments

2012-pres Coastal Specialist. California Sea Grant Extension Program, Scripps Institution of Oceanography, University of California San Diego
2009-pres Lecturer. Muir College, University of California San Diego
2010-2012 Assistant Project Scientist, Scripps Institution of Oceanography, University of California San Diego
2008-2012 Adjunct Assistant Professor, Biology, University of San Diego
2009-2010 Post-doctoral Scholar, Scripps Institution of Oceanography, University of California San Diego
2005-2009 Post-doctoral Scholar, Environmental Science & Policy, University of California, Davis
2005-2008 Adjunct Assistant Professor, Environmental Science, University of San Francisco
2001-2003 Graduate Teaching Assistant, Environmental Science & Policy, University of California, Davis
2000-2004 Graduate Research Assistant, Environmental Science & Policy, University of California, Davis
1992-2000 Staff Research Associate, Scripps Institution of Oceanography, University of California San Diego

Synergistic Activities (current only)

2018-pres Member. Batiquitos Lagoon Climate Scenario Planning Group, Tijuana River NERR
2018-pres Member. San Diego County State of the Food System Assessment Working Group
2017-pres President. California Estuarine Research Society, Coastal & Estuarine Research Federation
2017-pres Member. Coastal and Estuarine Research Federation Governing Board
2017-2018 Member. California Ocean Litter Strategy Working Group, CA Ocean Protection Council
2016-pres Co-Chair. San Diego Commercial Fishermen's Steering Committee
2015-pres Chair, Science and Technical Advisory Committee. Rewild Mission Bay Restoration Project
2014-pres Member. San Diego Bay Trash and Debris Working Group
2014-pres Member. San Diego Bay Native Oyster Restoration Working Group
2013-pres Teacher Training Instructor. Coastal ecology workshops for K-12 teachers of San Diego Unified School District in collaboration with Ocean Discovery Institute and Tijuana River NERR
2012- pres Affiliate Professor. Environmental and Ocean Sciences, University of San Diego
2010- pres Board Member, City of San Diego Wetlands Advisory Board
2008-pres Technical Advisory Board Member, Tijuana River National Estuarine Research Reserve
2005- pres Scientific Advisory Board & Lead Wetland Scientist. Ocean Discovery Institute, San Diego, CA

Publications (2007 to present)

- Talley, T.S.,** N. Venuti, R. Starr, C. Myrick. 2019. Evaluation of a White Seabass (*Atractoscion nobilis*) enhancement program in California. J. Kideghesho (ed.) *Wildlife Management - Failures, Successes and Prospects*. <http://mts.intechopen.com/articles/show/title/evaluation-of-a-white-seabass-attractoscion-nobilis-enhancement-program-in-california>.
- California Sea Grant.** 2018. Results of the 2018 Town Hall Meetings for the Ocean Resources Enhancement and Hatchery Program. Report submitted to California Department of Fish and Wildlife, Project no. P1770013. 19 December 2018. Publication no. CASG-18-027.
- Talley, T.S.,** N. Venuti, C. Adams, J. Barkan, E. Bowlby. 2018. Building Climate Resilience of Urban Waters, Ecosystems, and Communities. Final Report for State Coastal Conservancy submitted by Ocean Discovery Institute in partnership with California Sea Grant and San Diego Canyonlands. Project no. 3760-101-6083007. Date 31 July 2018. Publication No. CASG-18-024
- California Sea Grant.** 2017. Evaluation of the Ocean Resources Enhancement and Hatchery Program. Report submitted to California Department of Fish and Wildlife, Project no. P1470005. 12 December 2017. Publication no. CASG-17-010.
- Talley, T.S.,** H. Warde, N. Venuti. 2016. Local seafood availability in San Diego, California seafood markets. *Future of Food: Journal on Food, Agriculture and Society* 4(2): 40-49. <http://futureoffoodjournal.org/index.php/journal/article/view/228/pdf>
- Novoa, A., **T.S. Talley**, D. Talley, J. Crooks, N. Reys. 2016. Spatial and temporal examination of bivalve communities in several estuaries of southern California USA and northern Baja California, MX. *PLoS One*. doi:10.1371/journal.pone.0148220
- Talley, D.M., **T.S. Talley**, A. Blanco. 2015. Insights into the establishment of the Manila clam on a tidal flat at the southern end of an introduced range in Southern California, USA. *PLOS One*. DOI: 10.1371/journal.pone.0118891
- Nordström, M.C., C.A. Currin, **T.S. Talley**, C.R. Whitcraft, L.A. Levin. 2014. Benthic food-web succession in a developing salt marsh. *MEPS* 500: 43-55.
- Cook, R., **T.S. Talley**. 2013. The invertebrate communities associated with a *Chrysanthemum coronarium*-invaded coastal sage scrub area in Southern California. *Biol Invasion* 16: 365-380.
- Talley, T.S.,** K. Nguyen and A. Nguyen. 2012. Testing the effects of an introduced palm on a riparian invertebrate community in Southern California. *PLOS One* <http://dx.plos.org/10.1371/journal.pone.0042460>
- Currin, C.A., L.A. Levin, **T.S. Talley**, R. Michener and D. Talley. 2011. The role of cyanobacteria in created and natural southern California salt marsh food webs. *Mar Ecol* 32:346-363.
- Jones, C.G, J. Gutiérrez, J. Byers, J. Crooks, J. Lambrinos, **T.S. Talley**. 2010. A framework for understanding physical ecosystem engineering by organisms. *Oikos* 119: 1862-1869.
- Holyoak, M., **T.S. Talley**, S.E. Wood. 2010. How effective are current mitigation practices for imperiled species? A case study of the threatened valley elderberry longhorn beetle. *J. Insect Cons.* 14:43-52.
- Fremier, A.K., **T.S. Talley**. 2009. Scaling conservation efforts with river hydrology: lessons from blue elderberry distributions along four central California rivers. *Wetlands* 29: 150-162.
- Talley, T.S.** 2007. Which heterogeneity framework? Consequences for conclusions about patchy population distributions. *Ecology* 88(6): 1476-1489.
- Talley, T.S.,** J.A. Crooks. 2007. Habitat conversion associated with bioeroding marine isopods. Pp 185-202 In K. Cuddington, J. Byers, A. Hastings, W. Wilson (eds.) *Ecosystem Engineers: Concepts, Theory, and Applications*. Academic Press, San Diego, CA.
- Hastings, A., J.E. Byers, J.A. Crooks, K. Cuddington, C.G. Jones, J.G. Lambrinos, **T.S. Talley** and W.G. Wilson. 2007. Ecosystem engineers in space and time. *Ecol Letters* 10: 153-164.
- Talley, T.S.,** E. Fleishman, M. Holyoak, D. Murphy and A. Ballard. 2007. Rethinking a rare-species conservation strategy in an urbanizing landscape: The case of the valley elderberry longhorn beetle. *Biol Cons* 135: 21-32.

Media Coverage (2017- present)

- Sanchez Davidson, A.S., L. Bauman, S. Clausnitzer, K. Huang, L. Martin. What is the California commercial fishing apprenticeship program? Center for Marine Biology and Conservation, Scripps Institution of Oceanography. August 2019. <https://www.youtube.com/watch?v=vxo1T-2HITw>

Riggins, A. Juvenile soupfin sharks spotted near La Jolla Cove; beaches remain open. San Diego Union Tribune. 19 August 2019. <https://www.sandiegouniontribune.com/news/public-safety/story/2019-08-19/juvenile-soupfin-sharks-spotted-near-la-jolla-cove-beaches-remain-open>

Johnson, T. A Deep Dive into the San Diego Fishing Industry. San Diego Magazine. 31 July 2019. <https://www.sandiegomagazine.com/San-Diego-Magazine/August-2019/A-Deep-Dive-into-the-San-Diego-Fishing-Industry/>

Tjoa, M. New San Diego Commercial Fishing Apprenticeship To Train Next Generation. NBC 7. 20 July 2019. <https://www.nbcsandiego.com/news/local/New-Commercial-Fishing-Apprenticeship--512995731.html>

Davis, H. White seabass being raised in Newport Beach help build the fish's population in the Pacific. Los Angeles Times. 29 April 2019. <https://www.latimes.com/socal/daily-pilot/news/tn-dpt-me-seabass-pens-20190429-story.html>

Racino, B. Seaport developer, fishermen reach deal to help save San Diego's storied fishing industry. iNewsSource. 24 October 2018. <https://inewssource.org/2018/10/23/seaport-san-diego-fishermen-agreement/>

Leitzell, K., T.S. Talley. San Diego canyon restoration helps a community prepare for climate risks. California Sea Grant News. 30 July 2018. <https://caseagrant.ucsd.edu/news/san-diego-canyon-restoration-helps-a-community-prepare-for-climate-risks>

Lebowitz, P. Future of The White Seabass Enhancement Program In Question. Western Outdoor News. 11 April 2018. www.wonews.com/t-FeatureArticle_WhiteSeabassEnhance_041118.aspx

Kwon, S. San Diego-Area Chef Works to Turn the Tide for Local Seafood. Asparagus Magazine. 28 February 2018. <https://medium.com/asparagus-magazine/san-diego-area-chef-works-to-turn-the-tide-for-local-seafood-69b4ecf0d0b9>

News10. Effort to restock ocean's white seabass unsuccessful. 28 February 2018. www.youtube.com/watch?v=p6yOsCDS9Mw

The Time is Now, The Future is Here. A video project by the Aquarium of the Pacific, Long Beach, CA. June 2017. <https://vimeo.com/240085051>

Leschin-Hoar, C. \$40 Million Later, A Pioneering Plan To Boost Wild Fish Stocks Shows Little Success. The Salt- NPR. 15 February 2018. www.npr.org/sections/thesalt/2018/02/15/585500501/-40-million-later-a-pioneering-plan-to-boost-wild-fish-stocks-shows-little-success

Cappetta, J. Teach the kids to fish. Hakai Magazine. 19 October 2017. <https://www.hakaimagazine.com/article-short/teach-kids-fish>

Masters, E.J. Hope on the Horizon for San Diego's Disappearing Fishing Community. Edible San Diego. 31 August 2017. <http://ediblesandiego.ediblecommunities.com/food-thought/hope-horizon-san-diego-s-disappearing-fishing-community>

Madriaga, M. Tonnage report on Manzanita Canyon cleanup. The San Diego Reader. 18 August 2017. www.sandiegoreader.com/news/2017/aug/18/ticker-tonnage-report-manzanita-canyon-cleanup/#

Heath, L. The Future of Tuna Harbor: What It Means to All of San Diego. Dig Imperial Beach. 18 April 2017. <http://www.digimperialbeach.com/2017/04/18/139723/the-future-of-tuna-harbor-what-it-means-to-all-of-san-diego>

Golden, C. What Will Be the Future of the Tuna Harbor as the Seaport is Developed? Edible San Diego. 03 April 2017. <http://ediblesandiego.ediblecommunities.com/food-thought/future-tuna-harbor-seaport-development>

Racino, B. The Future of Tuna Harbor. iNewsSource. 18 April 2017. <http://inewssource.org/2017/04/18/reporter-brad-racino-presentation-future-tuna-harbor/>

Graham, M. Bay's plastic pollution — it's in the fish. Study takes it down to the microbead level. San Diego Reader. 26 Jan 2017. www.sandiegoreader.com/news/2017/jan/26/stringers-bays-plastic-pollution-its-fish/#

Presentations (2017 to present)

Talley, T.S. Careers in marine science: Extension. Speaker and panelist, Careers in Science Panel. Mission Bay High School. 28 January 2019.

Talley, T.S. What is California Sea Grant? An introduction to a statewide science resource. Marine Biology Seminar Series, Scripps Institution of Oceanography. 18 January 2019.

Talley, T.S. The Ecological and Social Dimensions Underlying Ecosystem Services in Urban Estuaries: Introduction to the session. Restore America's Estuaries. Long Beach, CA 09-13 December 2018.

Venuti, N., **T.S. Talley**. What coastal watershed trash monitoring reveals about urban sources. Restore America's Estuaries Meeting. Long Beach, CA 09-13 December 2018.

- Venuti, N., **T.S. Talley**. 2018. Our coasts are trashed, now what? Seeking lasting solutions to ecosystem services. California Estuarine Research Society Meeting. Long Beach, CA 08 December 2018.
- Talley, T.S.**, K. Lorenzen, N. Venuti. 2018. Ocean Resources Enhancement and Hatchery Program: Results of the Town Hall Meetings. Ocean Resources and Enhancement Program Advisory Board Public Meeting, California Dept. of Fish and Wildlife. Los Alamitos, CA. 18 November 2018.
- Talley, T.S.** Water stakeholders: Scientists. Speaker, Careers in Water. High Tech High International. 28 September 2018.
- Talley, T.S.** 2018. Ocean Resources Enhancement and Hatchery Program Evaluations Results. OREHP Townhall Meetings held 4, 7 and 11 June 2018 in Goleta, San Diego and San Pedro, CA.
- Talley, T.S.**, N. Venuti. Our coasts are trashed, now what? Seeking effective trash solutions from urban creek monitoring data. 6th International Marine Debris Conference. San Diego, CA 12 March 2018.
- Miller-Cassman, T., **T.S. Talley**, T. Von Bitner. Standard trash monitoring methods for California. 6th International Marine Debris Conference. San Diego, CA 14 March 2018.
- Talley, T.S.**, N. Venuti. Our coasts are trashed, now what? Seeking lasting solutions to ecosystem services. Coastal and Estuarine Research Society Meeting. Providence, RI. 05-10 November 2017.
- Venuti, N. **T.S. Talley**, H. Warde. Local seafood availability in San Diego seafood markets. 2017 Symposium on Food Systems & Public Health: S3: Safe, Secure, Sustainable Food. Long Beach, CA 10-12 May 2017.
- Talley, T.S. Invited Panel Speaker.** Achieving sustainable, secure & safe seafood: The role of commercial fisheries. 2017 Symposium on Food Systems & Public Health: S3: Safe, Secure, Sustainable Food. Long Beach, CA 10-12 May 2017.
- Talley, T.S. Invited Panel Speaker.** The Future of Tuna Harbor: Win-Win-Win. Sustainable Seafood Panel and Event hosted by San Diego Food System Alliance. San Diego, 13 April 2017.
- Talley, T.S.**, R. Whelan, and N. Venuti. Plastics in fish and sediments at the mouth of an urban coastal watershed. Joint Pacific Estuarine Research Society and California Estuarine Research Society Meeting, Coos Bay, OR. March 2017.

Awards, Honors and Grants (2014 – present)

- **NOAA Marine Debris Program.** 2019-2020. Taking it to the streets: Developing an urban trash monitoring protocol and education program to reduce coastal trash.
- **California Dept. of Fish and Wildlife.** 2017-2018. Townhall Meetings to Gather Public Input on the Future of the Ocean Resources Enhancement and Hatchery Program.
- **California Sea Grant.** 2018-2020. Cultural, Economic, and Public Health Determinants of Social Vulnerability to Seafood Contaminants in an Urban Embayment in Southern California. In collaboration with D. Pedersen, UCSD.
- **Muir Environmental Fellows Award.** 2017. Muir College, University of California San Diego, 19 April 2017 for contributions to environmental sustainability as a staff and faculty member at UCSD.
- **National Fish and Wildlife Foundation, Fisheries Innovation Fund.** 2016-2018. Revitalizing and Strengthening Resilience of Commercial Fisheries through a New Entrant Commercial Fisheries Apprenticeship Program (CA). In collaboration San Diego Fishermen's Working Group; California Dept of Apprenticeship Standards; UC Santa Barbara; UC Extension; Santa Barbara City College; Santa Barbara commercial fishermen.
- **Coastal Conservancy.** 2015-2018. Building Climate Resilience of Urban Waters, Ecosystems, and Communities. In collaboration with Ocean Discovery Institute and San Diego Canyonlands.
- **Alliance Building Award.** 2016. The Maritime Alliance, 09 November 2016 awarded to Commercial Fisheries Steering Committee for building collaboration between fishermen, seafood interests, scientists, Port of San Diego and Seaport San Diego Development team. 09 November 2016.
- **Sustainable Seafood Award.** 2015. The Maritime Alliance, 09 November 2015 for work strengthening community connections with local fisheries and fishermen. 09 November 2015.
- **Environmental Enhancement Fund.** 2015-2016. California Dept. of Fish and Wildlife. Restoration of Disturbed Salt Marsh-upland transition in the Tijuana River National Estuarine Research Reserve. In collaboration with M. Winter, Southwest Wetlands Interpretive Association / Tijuana River National Estuarine Research Reserve.
- **California Dept. of Fish and Wildlife.** 2015-2017. Evaluation of the Ocean Resources Enhancement and Hatchery Program. In Collaboration with R. Starr, J. Eckman (CASG).

- **National Science Foundation.** 2013-2015. Pathways Project: Advancing Informal Science Learning. Developing a Citizen Science Program Model to Engage Underrepresented Minority Groups. In collaboration with Ocean Discovery Institute
- **Earth Award.** 2014. Awarded by EarthWorks San Diego, 11 June 2014, for work on local seafood awareness.

Classes Taught

At UCSD

- Introduction to Environmental Issues: Natural Sciences. Fall 2011
- Coastal Ecology: The Ecology of Cis-montane San Diego County. Spring 2010, 2011, 2012, 2013, 2014, 2015, 2017 2018; Winter 2016, 2019
- Environmental Management in San Diego County. Fall 2009

At University of San Diego

- Invertebrate Zoology Lecture and Lab. Spring 2011
- Introduction to Genetics, Evolution & Ecology. Fall 2008, 2009, 2010.
- Introduction to Cell Processes Lab. Fall 2010
- Organismal Biology Lab. Spring 2009, 2010, 2012
- Senior Seminar. Spring, Fall 2009

At University of San Francisco

- Ecology & Management of Introduced Species. Spring 2008
- Wetland Ecology. Fall 2005, 2007
- Conservation Biology. Spring 2007
- Wetland Conservation & Management. Spring 2006

At UC Davis

- **Wetland Ecology Lab** (teaching assistant). Fall 2003
- **Principles of Ecology** (teaching assistant). Fall 2001

Societies and Certifications

Scientific Societies:

California Estuarine Research Society

Coastal and Estuarine Research Federation

Certification:

- Planning and Facilitating Stakeholder Meetings. NOAA Coastal Services Center Training, Feb 2015.
- Certificate of Completion of the **Seminar in College Teaching**, UC Davis, March 2003
- Recreational **SCUBA** diving certificate, Scuba Schools International, 1990.

Review manuscripts for: Biological Conservation, Biological Invasions, Ciencias Marinas, Ecological Applications, Ecology Letters, Estuaries & Coasts (formerly Estuaries), Estuarine, Coastal & Shelf Science, Environmental Management, Global Ecology & Biogeography, Journal of Experimental Marine Biology & Ecology, Journal of Natural History, Marine Biology, Marine Ecology Progress Series, Oecologia, Wetlands Ecology & Management.