

## KIRSTEN L.L. OLESON, PH.D.

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### EDUCATION

<b>Ph.D. Interdisciplinary Program in Environment and Resources (IPER)</b>	<b>2007</b>
Stanford University, Stanford, California. Dissertation: <i>Sustainability of comprehensive wealth: A practical and normative assessment</i> . Committee: Lawrence Goulder, Debra Satz, Kenneth Arrow, Rosamond Naylor, Barton Thompson III, David Freyberg.	
<b>M.Sc. Applied Environmental Economics</b>	<b>2005</b>
University of London, Imperial College, U.K. Thesis: <i>Sustainability analysis of global consumption using genuine savings</i> .	
<b>Ir. (Engineer; M.Sc. equivalent) Civil and Environmental Engineering</b>	<b>1998</b>
Technische Universiteit Delft, the Netherlands. Thesis: <i>Quality control of phosphorus analysis of soils</i> .	
<b>B.Sc. Civil and Environmental Engineering</b>	<b>1996</b>
University of Virginia, Charlottesville, Virginia. Thesis: <i>Constructed wetland use in filtering highway run-off</i> .	

### ACADEMIC APPOINTMENTS

<b>University of Hawai'i at Mānoa (UH)</b>	
<i>Professor of Ecological Economics</i>	<b>2022 – present</b>
<i>Associate Professor of Ecological Economics</i>	<b>2017 – 2022</b>
<i>Assistant Professor of Ecological Economics</i>	<b>2012 – 2017</b>
Department of Natural Resources and Environmental Management College of Tropical Agriculture and Human Resources	
<i>Graduate Program Chair</i>	<b>2018 – 2021</b>
<i>Fellow, University of Hawai'i Economic Research Organization (UHERO)</i>	<b>2015 – current</b>
<i>Affiliated Faculty, Water Resources Research Center</i>	<b>2015 – current</b>
<i>Adjunct Senior Fellow, East-West Center</i>	<b>2021 – current</b>
<b>National Science Foundation</b>	<b>2010 – 2011</b>
<i>International Post-Doctoral Research Fellow and Principal Investigator, Blue Ventures Conservation, Madagascar.</i>	
<b>Public Policy Program, Stanford University</b>	<b>2007 – 2009</b>
<i>Teaching Fellow, Faculty for new Master's in Public Policy program, designed curriculum, taught core courses, and advised students.</i>	
<b>Stanford Institute for Economic Policy Research, Stanford University</b>	<b>2006 – 2009</b>
<i>Co-Investigator and Research Fellow, Quantitative natural resource ethics.</i>	
<b>Interdisciplinary Program in Environment and Resources, Stanford University</b>	<b>2003 – 2007</b>
<i>Principal Investigator, Ph.D. Dissertation.</i>	
<b>Centre d'Ecologie des Systèmes Aquatiques Continentaux, Université Paul Sabatier (Toulouse, France) and Technische Universiteit Delft (the Netherlands)</b>	<b>1997 – 1998</b>
<i>Principal Investigator, Master's Thesis.</i>	

<b>PROFESSIONAL APPOINTMENTS</b>
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<b>Environmental Consultant</b>	<b>2003 – current</b>
Sole proprietor specialized in environmental and economic assessment. Clients included World Bank, Packard Foundation, Conservation International, Secretariat of the Pacific Regional Environment Programme (SPREP), Blue Ventures Conservation.	
<b>Blue Ventures Conservation, Madagascar</b>	<b>2009 – 2010</b>
Lead Environmental Economist. Bio-economic modeling, ecosystem service assessment, total economic valuation, and cost-benefit analysis of coastal conservation policy.	
<b>The World Bank, Latin America and Caribbean Region</b>	<b>1998 – 2003</b>
Staff Environmental Engineer; Operations Analyst; Intern with Environmentally and Socially Sustainable Development Department. Specialized in environmental assessment. Projects in Brazil, Chile, Colombia, India, Kazakhstan, Mexico, Peru, Poland, Saint Lucia, and Ukraine.	
<b>Indo-Dutch Programme on Alternatives in Development</b>	<b>1996 – 1997</b>
International conference coordinator, the Hague, the Netherlands.	

<b>GRANTS RECEIVED</b>
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Notes: NOAA = National Oceanic and Atmospheric Administration; USGS = US Geological Survey; DBEDT = Dept of Business, Economic Development and Tourism; DLNR = Department of Land and Natural Resources; DAR = Division of Aquatic Resources; NIFA = National Institute of Food and Agriculture; DoH = Department of Health

**As PI**

InEvalTool: An integrative evaluation toolkit for Hawaiian Nature-Based Solutions  
Cooperative Institute for Research to Operations in Hydrology (CIROH)  
\$419,995  
2024 – 2027

Ecosystem accounting for Kalaupapa National Historic Park  
National Park Service  
\$25,229  
2024 – 2025

Using natural capital accounting to embed climate impacts into routine decision-making  
NOAA Sea Grant College Program  
\$142,202  
2022 – 2024

The Hawaiian model: Valuing and integrating nature's services for conservation choices  
Pew Charitable Trusts (2021 Pew Marine Fellow)  
\$150,000  
2021 – 2024

Economic analysis of climate bridging organizations  
NOAA Climate Program  
\$18,078  
2021 – 2022

Updating the Genuine Progress Indicator for the state of Hawai'i  
State of Hawai'i Department of Business, Economic Development, and Tourism  
\$148,958  
2021

Water natural capital accounts for Hawai'i  
Ulu pono Initiative  
\$43,804  
2019

Examining how ridge-to-reef governance in Palau can enhance coastal food security  
Pacific Islands Climate Adaptation Science Center  
\$49,392  
2021 – 2022

Exploring water natural capital accounts as a climate adaptation planning tool  
NOAA Climate Program  
\$70,000  
2020 - 2021

Preferences for local seafood  
Conservation International  
\$30,000  
2019

Sport fisher survey  
Palau National Marine Sanctuary  
\$25,000  
2018 - 2020

Assessing nearshore management strategies for coral resilience  
NOAA Coral Reef Conservation Program  
\$79,739  
2017-2019

Ecosystem service trade-offs from alternative fire management strategies in Hawai'i's forests  
US Department of Agriculture – National Institute for Food and Agriculture (McIntire Stennis)  
\$125,000  
2017 – 2022

Socio-economic baseline of Palau's fisheries sector  
National Geographic Society Pristine Seas  
\$216,846  
2016 – 2018

Socio-economic assessment of marine water quality threats in West Maui and Kona, Hawai'i

NOAA Coral Reef Conservation Program  
\$79,994  
2016 – 2017

Evaluating the economic impacts of climate variability and change on Maui's freshwater resources and ecosystem services  
Department of Interior – Pacific Island Climate Science Center  
\$68,490  
2016 – 2017

Evaluating potential solutions to West Maui's coral reef declines  
Department of Defense – US Army Corps of Engineers  
\$99,970  
2015 – 2016

Mapping and environmental science to support clean reefs of West Maui, Hawai'i  
Department of Interior – Pacific Island Climate Science Center  
\$21,867  
2015 – 2016

Participatory Driver-Pressure-State-Impact-Response modeling  
NOAA Kona Integrated Ecosystem Assessment  
\$48,000  
2014 – 2016

Evaluating management effectiveness for land-based sources of pollutants  
NOAA Coral Reef Conservation Program  
\$77,561  
2014 – 2016

Managing multiple ecosystem services with changing land use in west Maui  
USGS Water Resources Research Center  
\$20,208  
2014 – 2015

Value and supply chain mapping  
Conservation International  
\$87,305  
2014 – 2015

Ecosystem service modeling and mapping  
NOAA Coral Reef Conservation Program  
\$68,552  
2013 – 2015

Climate change impact assessment for coral reef ecosystem services  
Department of Interior – Pacific Island Climate Science Center

\$249,718  
2013 – 2015

Spatial trade-off analysis  
NOAA Hawaiian Islands Humpback Whale National Marine Sanctuary  
\$56,135  
2013 – 2015

Cost-benefit analysis of climate adaptation options for freshwater security  
Secretariat of the Pacific Regional Environment Program  
\$20,000  
2012

**As co-PI/co-I**

What Does It Take to Build and Maintain a Sustainable Recreational Trails System in the Hawaiian Islands?  
Hawaii Department of Land and Natural Resources  
\$1,100,000  
2022-2026

Hawai'i Climate Smart Commodities: A Portfolio Approach to Equitably Scaling the Agriculture Sector  
USDA  
\$10,823,670  
2022 – 2027

Supporting Equitable Nature-Based Solutions for Flood Mitigation  
University of Alabama  
\$487,127  
2022-2026

Working towards sustainability of Hawai'i's nearshore fisheries  
UH SeaGrant  
\$231,291  
2022-2024  
Co-PI

The Pacific RISA Phase IV: Building equitable and just climate solutions for Pacific Island resilience to compound disasters and extreme events  
NOAA Climate Program Office  
\$7,010,693 (\$504,455)  
2021 - 2026  
co-PI

Assessing current and future ocean acidification and climate vulnerabilities along the Hawaiian Archipelago  
NOAA Ocean Acidification Program

\$1,039,492 (\$375,888)

2021 - 2024

co-PI

Assessing the impact of future climate on Hawai'i's aquatic ecosystems

National Fish and Wildlife Foundation

\$150,000 (\$0)

2020 – 2022

co-I

NSF/NIFA INFEWS: Sustaining California's food production through integrated water and energy management

USDA National Institute for Food and Agriculture

\$2,500,000 (\$194,849)

2017 – 2022

co-PI

Updating Hawai'i's cesspool prioritization and timeline strategy

State of Hawai'i Department of Health

\$209,388

2020 – 2021

co-I

Decision science for cesspool upgrading prioritization

State of Hawai'i Department of Health

\$99,000

2018 – 2019

co-PI

Working towards sustainability of Hawai'i's nearshore fisheries through characterizing and modeling fisheries regulation effects

NOAA Sea Grant College Program

\$231,291 (\$0)

2022 – 2024

co-I

Assessing the value and supply chain for coastal fisheries in the main Hawaiian Islands

NOAA Saltonstall Kennedy Grant

\$249,498

2015 – 2017

co-I

Ocean Tipping Points

Moore Foundation

\$838,500

2014 – 2017

Co-PI

Economic tourism value of Guam's fisheries  
 NOAA Coral Reef Conservation Program  
 \$37,485  
 2012 – 2013  
 co-I

## PUBLICATIONS

### Notes:

- I underline my direct advisees, post-doctoral fellows, and research assistants, and *italicize* other student co-authors. Where a student and I worked equally on the research, we agreed to be co-primary authors (designated with an \*).
- To specify my contribution to each paper across these diverse authorship conventions, I estimate my percent contribution to total effort in each of five categories: (i) concept and design of the study; (ii) data collection and processing; (iii) analysis of the data; (iv) interpretation of results; (v) preparation of the manuscript.
- In parentheses, I note the 2020 Thomson Reuters InCites journal ranking, if available, and the number of times the article has been cited.

### Refereed Publications

*Innes-Gold, A. A., P. Carvalho, L. McManus, S. Correa-Garcia, S. Marcoux, K.L.L. Oleson, K. Stokes, E. P. Madin (2024). Modeling the interactive effects of sea surface temperature, fishing effort, and spatial closures on fish populations. Theoretical Ecology.*

*Cleveland, R., C. Trauernicht, L. Bremer, E. Pickett, K.L.L. Oleson (2024). Guiding Fuzzy Cognitive Mapping with Structured Decision Making to Inform Complex Natural Resource Management Problems in Wai'anae Hawai'i. Community Science, 3(2), e2023CSJ000060.*

*Dugstad, A., A. Ceria, M. Comerós, K.L.L. Oleson (2024). Exploring the influence of activity participation on the economic value of nature-based recreation in the Sierra Nevada. Journal of Environmental Management, 360, 121081.*

*Perng, L. Y., K. M. Leong, M. Weijerman, K.L.L. Oleson (2024). A multi-decadal assessment of social thresholds and outcomes in marine social-ecological systems in Hawai'i. Marine Policy, 163, 106141.*

*Fezzi, C.F., D. Ford, K.L.L. Oleson (2023). The economic value of coral reefs: Climate change impacts and spatial targeting of restoration measures. Ecological Economics, 203:107628. (%: 50; 30; 30; 50; 50) (6.536)*

*Friedlander, A.M., A. Bukurrou, A. Filous, C.M. Karanasson, H. Koike, S. Koshiba, G. Mereb, V. Nestor, K.L.L. Oleson, D. Olsudong, J. Oruetamor, E.I. Otto, K. Polloi, G. Rengiil, E. Tellei, Y. Golbuu (2023). Assessing and managing charismatic marine megafauna in Palau: Bumphead parrotfish (*Bolbometopon muricatum*) and Napoleon wrasse (*Cheilinus undulatus*). Aquatic Conservation 33(4), 349-365. (%: 5; 5; 5; 5; 5) (3.258)*

*Perng, L.Y., J. Walden, K.M. Leong, G.S. DePiper, C. Speir, S. Blake, K. Norman, S. Kasperski, M. Weijerman, K.L.L. Oleson (2023). Identifying social thresholds and measuring social achievement in social-ecological systems: A cross-regional comparison of fisheries in the United States. Marine Policy, 152, 105595. (%: 10; 0; 0; 5; 10) (4.315)*

*Oleson, K.L.L., M.D. Barnes, A. Fung, W. Goodell, T.A. Oliver, R. Whittier, and R. Babcock (2023). Trade-offs across values in cesspool management highlight challenges to policy making. Journal of Environmental Management 330, 1168853. (%: 50; 50; 50; 50; 75) (8.910)*

- Seipp, K.Q., T. Maurer, M. Elias, P. Saska, C. Keske, **K.L.L. Oleson**, B.N. Egoh, R. Cleveland, C. Nyelele, N. Goncalves, K. Hemes, P. Wyrsh, D. Lewis, M.G. Chung, H. Gua, M. Conklin, R. Bales (2023). A multibenefit framework for funding forest management implementation in fire-driven ecosystems across the Western US. *Journal of Environmental Management*. (%: 5; 5; 5; 5; 5) (8.910)
- Wilmot, E., J. Wong, Y. Tsang, A.J. Lynch, D. Infante, **K.L.L. Oleson**, A. Strauch, H. Cliverd (2022). Characterizing mauka-to-makai connections for aquatic ecosystem conservation on Maui, Hawai'i. *Ecological Informatics*. 70:101704. (%: 5; 0; 0; 5; 5) (4.498)
- Bagstad, K.J., J.C. Ingram, C.D. Shapiro, A. La Notte, J. Maes, S. Vallecillo, C.F. Casey, P.D. Glynn, M.P. Heris, J.A. Johnson, C. Lauer, J. Matuszak, **K.L.L. Oleson**, S.M. Posner, C. Rhodes, B. Voigt (2021). Lessons learned from development of natural capital accounts in the United States and European Union. *Ecosystem Services*. 52: 101359. (%: 5; 5; 5; 5; 5) (6.910)
- Hume, A., J. Leape, **K.L.L. Oleson**, E. Polk, K. Chand, R. Dunbar (2021). Towards an ocean-based large ocean states country classification. *Marine Policy*. 134:104766. (%: 5; 0; 10; 15; 15) (4.315)
- Iwane, M.A., K.L. Leong, M. Vaughan, **K.L.L. Oleson** (2021). When a shark is more than a shark: A socio-political problem-solving approach to fisher-shark interactions. *Frontiers in Marine Science*. (%: 10; 0; 0; 30; 30) (4.912) (8)
- Suan, A., K.L. Leong, **K.L.L. Oleson** (2021). Automated content analysis of the Hawai'i small boat fishery survey reveals nuanced, evolving conflicts. *Ecology and Society*. (%: 30; 0; 15; 33; 33) (4.403) (N/A)
- Dacks, R., S.A. Lewis, P.A.S. James, L. Marino, **K.L.L. Oleson** (2020). Documenting baseline value chains of Palau's nearshore and offshore fisheries prior to implementing a large-scale marine protected area. *Marine Policy* 117:103754. (%: 80; 30; 30; 30; 30) (4.173) (13)
- Gruby, R., N. Gray, L. Fairbanks, E. Havice, L. Campbell, A. Friedlander, **K.L.L. Oleson**, K. Sam, L. Mitchell, Q. Hanich (2020). Large-scale marine protected areas meet fisheries management: Policy interactions in ocean governance. *Conservation Letters* e12753. (%: 10; 10; 10; 10; 10) (8.105) (8)
- Lewis, S.A., C. Fezzi, R. Dacks, S. Ferrini, P.A.S. James, L.L. Marino, Y. Golbuu, **K.L.L. Oleson** (2020). Mitigating unintended consequences of conservation policies requires understanding tourists' socio-economic behavior and preferences. *Nature Food* 1:783-786. (%: 80; 30; 30; 30; 30) (5)
- Oleson, K.L.L.**, K.J. Bagstad, C. Fezzi, M.D. Barnes, M.K. Donovan, K.A. Falinski, K.D. Gorospe, H. Htun, J. Lecky, F. Villa, T. Wong (2020). Linking land and sea through an ecological-economic model of coral reef recreation. *Ecological Economics* 177:106788. (%: 100; 60; 50; 50; 75) (4.482) (12)
- Warnell, K.J.D., M. Russell, C. Rhodes, K.J. Bagstad, L.P. Olander, D.J. Nowak, R. Poudel, P.D. Glynn, J.L. Hass, S. Hirabayashi, J.C. Ingram, J. Matuszak, **K.L.L. Oleson**, S.M. Posner, F. Villa (2020). Testing ecosystem accounting in the United States: A case study for the Southeast. *Ecosystem Services* 43:101099. (%: 5; 0; 0; 5; 5) (5.454) (25)
- Weijerman, M., Z. Oyafuso, K. Leong, **K.L.L. Oleson**, M. Winston (2020). Supporting EBFM in meeting multiple objectives for sustainable use of coral reef ecosystems. *ICES Journal of Marine Science* fsaa194. (%: 10; 0; 5; 15; 15) (3.593) (2)
- Winter, K.B., N.K. Lincoln, F. Berkes, R.A. Alegado, N. Kurashima, K.L. Frank, P. Pascua, Y.M. Rii, F. Reppun, I.S.S. Knapp, W.C. McClatchey, T. Ticktin, C. Smith, E.C. Franklin, **K.L.L. Oleson**, M.R. Price, M.A. McManus, M.J. Donahue, K.S. Rodgers, B.W. Bowen, C.E. Nelson, B. Thomas, J.-A. Leong, E.M.P. Madin, M.J. Rivera, K.A. Falinski, L.L. Bremer, J.L. Deenik, S.M. Gon III, B. Neilson, R. Okano, A. Olegario, B. Nyberg, A. Kawelo, K. Kotubetey, J. Kukea-Shultz, R.J. Toonen (2020). Ecomimicry in Indigenous resource management: optimizing ecosystem services to achieve resource abundance, with examples from Hawai'i. *Ecology and Society* 25(2):26. (%: 0; 0; 0; 4; 4) (4.403) (38)



- Winter, K.B., Y. M. Rii, F. A.W.L. Reppun, K. DeLaforge Hintzen, R.A. Alegado, B.W. Bowen, L.L. Bremer, M. Coffman, J.L. Deenik, M.J. Donahue, K.A. Falinski, K. Frank, E.C. Franklin, N. Kurashima, N. Kekuewa Lincoln, E.M.P. Madin, M.A. McManus, C.E. Nelson, R. Okano, A. Olegario, P. Pascua, **K.L.L. Oleson**, M.R. Price, M.J. Rivera, K.S. Rodgers, T. Ticktin, C.L. Sabine, C.M. Smith, A. Hewett, R. Kaluhiwa, M. Cypher, B. Thomas, J.-A. Leong, K. Kekuewa, J. Tanimoto, K. Kukea-Shultz, A. Kawelo, K. Kotubetey, B.J. Neilson, T.S. Lee, R.J. Toonen (2020). Collaborative research to inform adaptive comanagement: a framework for the He'eia National Estuarine Research Reserve. *Ecology and Society* 25(4):15. (2%) (%: 0; 0; 0; 2; 2) (4.403) (15)
- Barnes, M.D., W. Goodell, R. Whittier, R., K.A. Falinski, T. Callender, H. Htun, C. Leviol, H. Slay, **K.L.L. Oleson** (2019). Decision analysis to support wastewater management in coral reef priority area. *Marine Pollution Bulletin* 148:16-29. (%: 60; 30; 20; 30; 40) (5.553) (10)
- Jouffray, J.B., L. Wedding, A. Norström, M. Donovan, G. Williams, L. Crowder, A. Erickson, A. Friedlander, N. Graham, J. Gove, C. Kappel, J. Kittinger, J. Lecky, **K.L.L. Oleson**, K. Selkoe, C. White, I. Williams, M. Nystrom (2019). Parsing human and biophysical drivers of coral reef regimes. *Proceedings of the Royal Society B* 286(1896):20182544. (%: 5; 0; 0; 5; 5%) (5.349) (33)
- Boyd, J.W., K.J. Bagstad, J.C. Ingram, C.D. Shapiro, J.E. Adkins, C.F. Casey, C.S. Duke, P.D. Glynn, E. Goldman, M. Grasso, J.L. Hass, J.A. Johnson, G. Lange, J. Matusak, A. Miller, **K.L.L. Oleson**, S.M. Posner, C. Rhodes, F. Soulard, M. Vardon, F. Villa, B. Voigt, S. Wentland (2018). The natural capital accounting opportunity: let's really do the numbers. *BioScience* 68(12):940-943. (%: 5; 5; 5; 5; 5) (8.589) (11)
- Bremer, L.L., K. Falinski, C. Ching, C.A. Wada, K.M. Burnett, K. Kukea-Shultz, N. Reppun, G. Chun, **K.L.L. Oleson**, T. Ticktin (2018). Biocultural restoration of traditional agriculture: cultural, environmental, and economic outcomes of lo'i kalo restoration in He'eia, O'ahu. *Sustainability* 10(12):4502. (%: 25; 10; 10; 10; 10) (3.251) (21)
- Bryant, B.P., M.E. Borsuk, P. Hamel, **K.L.L. Oleson**, C.J.E. Schulp, S. Wilcock (2018). Transparent and feasible uncertainty assessment adds value to applied ecosystem services modeling. *Ecosystem Services* 33:103-109. (%: 15; 15; 15; 15; 10) (5.454) (18)
- Delevaux, J.M., R. Whittier, K.A. Stamoulis, L.L. Bremer, S. Jupiter, A.M. Friedlander, M. Poti, G. Guannel, N. Kurashima, K.B. Winter, R. Toonen, E. Conklin, C. Wiggins, A. Knudby, W. Goodell, K. Burnett, S. Yee, H. Htun, **K.L.L. Oleson**, T. Wiegner, T. Ticktin (2018). A linked land-sea modeling framework to inform ridge-to-reef management in high oceanic islands. *PLoS One* 13(3): e0193230. (%: 40; 0; 0; 10; 10) (3.240) (33)
- Donovan, M., A. Friedlander, J. Lecky, J. Jouffray, G. Williams, L. Wedding, L. Crowder, A. Erickson, N. Graham, J. Gove, C. Kappel, K. Karr, J. Kittinger, A. Norström, M. Nyström, **K.L.L. Oleson**, K. Stamoulis, C. White, I. Williams, K. Selkoe (2018). Combining fish and benthic communities into multiple regimes reveals complex reef dynamics. *Scientific Reports* 8(1):16943. (%: 10; 0; 0; 10; 10) (4.379) (28)
- Ingram, R., **K.L.L. Oleson**, J. Gove (2018). Revealing complex social-ecological interactions through participatory modeling to support ecosystem-based management in Hawai'i. *Marine Policy* 94:180-188. (%: 60; 20; 20; 33; 40) (4.173) (26)
- Oleson, K.L.L.**, S. Grafeld, P. van Beukering, L. Brander, P.A.S. James, E. Wolfs (2018). Charting progress towards system-scale ecosystem service valuation in islands. *Environmental Conservation*. Doi:10.107/S0376892918000140 (%: 90; 30; 40; 40; 50) (3.012) (6)
- Wedding, L.M., J. Lecky, J.M. Gove, H.R. Walecka, M.K. Donovan, G.J. Williams, J. Jouffray, L.B. Crowder, A. Erickson, K. Falinski, A.M. Friedlander, C.V. Kappel, J.N. Kittinger, K. McCoy, A. Norström, M. Nyström, **K.L.L. Oleson**, K.A. Stamoulis, C. White, K.A. Selkoe (2018). Advancing the integration of

- spatial data to map human and natural drivers on coral reefs. *PLoS One* 13(3): e0189792 (%: 10; 10; 10; 10; 10) (3.240) (44)
- Weijerman, M., L. Veazey, S. Yee, K. Vaché, J.D. Delevaux, M. *Donovan*, K. Falinski, J. Lecky, **K.L.L. Oleson** (2018). Managing local stressors for coral reef condition and ecosystem services delivery under climate scenarios. *Frontiers in Marine Science* 5(2018):425. (%: 60; 20; 20; 30; 30) (4.912) (11)
- Grafeld, S., **K.L.L. Oleson**, L. Teneva, J.N. Kittinger (2017). Follow that fish: Uncovering the hidden blue economy in coral reef fisheries. *PLoS One* 12(8): e0182104. (%: 30; 20; 30; 30; 30) (3.240) (39)
- Oleson, K.L.L.**, K.A. Falinski, J. Lecky, C. Rowe, C.V. Kappel, K.A. Selkoe, C. White (2017). Upstream solutions to coral reef conservation: smart and cooperative decision-making pays off. *Journal of Environmental Management* 191:8-18. (%: 70; 40; 60; 60; 60) (6.789) (26)
- Peng, M., **K.L.L. Oleson** (2017). Beach recreationalists' preferences for environmental quality on Oahu. *Ecological Economics* 136:41-52. (%: 70; 15; 15; 50; 50) (5.389) (44)
- Powell, K.B., L.M. Ellsworth, C.M. Litton, **K.L.L. Oleson**, S.A. Ammond (2017). Toward cost-effective restoration: Scaling up restoration in ecosystems degraded by nonnative invasive grass and ungulates. *Pacific Science* 71(4):479-493. (%: 10; 5; 5; 10; 10) (1.101)
- Grafeld, S., **K.L.L. Oleson**, M. Barnes, M. Peng, C. Chan, M. Weijerman (2016). Divers willingness to pay for improved coral reef conditions in Guam: An untapped source of funding for management and conservation? *Ecological Economics* 128:202-213. (%: 60, 5; 20; 30; 40) (5.389) (36)
- Ratsimbazafy, H., **K.L.L. Oleson**, R. Roy, A. Harris (2016). Fishing site mapping using local knowledge provides accurate and satisfactory results: Case study of octopus fisheries in Madagascar. *Western Indian Ocean Journal of Marine Science* 15(2):1-7. (%: 50, 30, 20, 20, 0) (nd) (5)
- Weijerman, M., C. Grace-McCaskey, S. Grafeld, D. Kotowicz, **K.L.L. Oleson**, I. van Putten (2016). Towards an ecosystem-based approach of Guam's coral reefs: the human dimension. *Marine Policy* 63:8-17. (%: 10; 10; 15; 15; 15) (4.173) (14)
- Barnes-Mauthe\*, M., **K.L.L. Oleson\***, L.M. Brander, B. Zafindrasilivonona, T.A. Oliver, P. van Beukering (2015). Social capital as an ecosystem service: Evidence from a locally managed area. *Ecosystem Services* 16:283-293. (%: 90; 80; 30; 30; 40) (5.454) (51)
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#### Book chapters

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- Munoz, P., E. Darkey, L. Pearson, **K.L.L. Oleson**, K. Mumford (2012). Chapter 4: Key findings. In *Inclusive Wealth Report 2012*. P. Dasgupta, A. Duraipah, P. Munoz (Eds.). Cambridge UK: Cambridge University Press. This report was submitted to RIO+20 Conference on Sustainable Development.
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- Oleson, K.L.L.** (2008). Integrating the environment into economics in China – A focus on exports. In E. Au, K. Lam, T. Zhu, M. Partidario (Eds.), *International Experience on Strategic Environmental Assessment*, Dept. Geog. and Resource Mgmt., The Chinese University of Hong Kong, Hong Kong:China.
- Refereed technical reports
- Frazier, A.G., M.-V.V. Johnson, L. Berio Fortini, C.P. Giardina, Z.N. Grecni, H.H. Kane, V.W. Keener, R. King, R.A. MacKenzie, M. Nobrega-Olivera, K.L.L. Oleson, C.K. Shuler, A.K. Singeo, C.D. Storlazzi, R.J. Wallsgrove, and P.A. Woodworth-Jefcoats, 2023: Ch. 30. Hawai'i and US-Affiliated Pacific Islands. In: *Fifth National Climate Assessment*. Crimmins, A.R., C.W. Avery, D.R. Easterling, K.E. Kunkel, B.C. Stewart, and T.K. Maycock, Eds. U.S. Global Change Research Program, Washington, DC, USA. <https://doi.org/10.7930/NCA5.2023.CH30>
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- Iwane M.A., K. Leong, M. Vaughan, **K.L.L. Oleson** (2019). Engaging Hawai'i small boat fishers to mitigate pelagic shark mortality. NOAA Admin Rep. H-20-10, 113 p. doi:10.25923/54tf-kh65. Available at: <https://repository.library.noaa.gov/view/noaa/27821>
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- Gove, J., J. Polovina, W. Walsh, A. Heenan, I.D. Williams, L. Wedding, R.J. Ingram, J. Lecky, **K.L.L. Oleson**, H. Walecka, S. Heron, C.S. Couch, E.J. Howell (2016). West Hawai'i Integrated Ecosystem Assessment: Ecosystem Trends and Status Report 2016. NOAA Technical Memorandum
- Grafeld, S., K.L.L. Oleson (2016). A value chain analysis for Hawai'i's commercial nearshore fishery. Report to Conservation International Hawai'i Program
- Maynard, J., B. Parker, R. Beeden, J. Tamelander, P. McGowan, L. Gramer, S. Heron, M. Kendall, S. McKagan, E. McLeod, **K.L.L. Oleson**, S. Pittman (2015). Coral Reef Resilience Research and Management – Past, Present and Future: Workshop Report. NOAA Technical Memorandum CRCP 20. 47pp. doi:10.7289/V5VQ30M9
- Ostergaard-Klem, R., **K.L.L. Oleson** (2015). The tie between invasive species and the economy. Hawai'i State Environmental Council's Annual Report

- Oleson, K.L.L., K. Falinski, M. Peng** (2014). Managing for multiple ecosystem services with changing land use in West Maui. Water Resources Research Center, Honolulu, HI  
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- Ostergaard-Klem, R., **K.L.L. Oleson** (2014). Presenting the genuine progress indicator baseline. Hawai'i State Environmental Council's Annual Report
- Le Manach, F., C. Andrianajona, **K.L.L. Oleson**, A. Clausen, G.-M. Lange (2013). Natural capital accounting and management of the Malagasy fisheries sector: A technical case study for the WAVES global partnership in Madagascar. World Bank
- Oleson, K.L.L.** (2013). Cost-benefit analysis of freshwater security options for Republic of the Marshall Islands being considered under Pacific Adaptation to Climate Change project. Report submitted to Secretariat of the Pacific Regional Environmental Program
- Ostergaard-Klem, R., **K.L.L. Oleson** (2013). Introducing the Genuine Progress Indicator to Hawaii. Hawai'i State Environmental Council's Annual Report.
- Oleson, K.L.L.** (2011). Taking an ecosystem service perspective in Velondriake Locally Managed Marine Area. Case study for The Economics of Ecosystems and Biodiversity (TEEB) Global Atlas.

#### Technical reports, manager reports, working papers

- PICRC, Stanford Center for Ocean Solutions, Expert Working Group (2019). Palau's National Marine Sanctuary: Managing ocean change and supporting food security. Expert working group report.  
<https://oceansolutions.stanford.edu/pnms-report>
- Babcock, R., **K.L.L. Oleson**, M. Barnes, A. Fung, J.W. Goodell (2019). Upcountry Maui Cesspool Upgrade Investigation Report. Report submitted to the Hawai'i Department of Health.
- Oleson K.L.L., R. Dacks, S. Lewis** (2019). *Final Report Palau National Marine Sanctuary – Socioeconomic baseline project*. PICRC Technical Report 19-07 Palau International Coral Reef Center. Koror, Palau.  
<http://picrc.org/picrcpage/wp-content/uploads/2019/05/Oleson-PNMS-Socioeconomic-2019-2.pdf>
- Palau International Coral Reef Center and the Stanford Center for Ocean Solutions (2019). Palau's National Marine Sanctuary: Managing ocean change and supporting food security." Expert working group report submitted to PICRC. Available at: <http://picrc.org/picrcpage/palau-nationalmarine-sanctuary> and <https://oceansolutions.stanford.edu/pnms-report>
- Selkoe, K., **K.L.L. Oleson**, J.W. Goodell (2018). Ocean Tipping Points Hawai'i project internal report to managers
- Koike, H., A. Friedlander, **K. Oleson**, S. Koshiba, K. Polloi (2014). Final Report on Diver's Perception Survey for Palau's Kemedukl and Maml: Stock Assessment for Humphead Wrasse and Bumphead Parrotfish. Koror, Palau. PICRC Technical Report 14-02. Palau International Coral Reef Center.  
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- Barnes-Mauthe, M., **K.L.L. Oleson** (2013). Economically Valuable. SAMUDRA Report, Issue No. 66: International Collective in Support of Fishworkers. <http://www.icsf.net/es/samudra/detail/EN/3940.html>

#### Data releases

- Oleson, K.L.L., K.J. Bagstad, C. Fezzi, M.D. Barnes, M.K. Donovan, K.A. Falinski, K.D. Gorospe, H. Htun, J. Lecky, F. Villa, T. Wong** (2020). Data release for Linking land and sea through an ecological-economic model of coral reef recreation: U.S. Geological Survey data release,  
<https://doi.org/10.5066/P9RO57E8>

<b>LEADERSHIP</b>
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<b>United Nations Global Coral Reef Fund</b>	2022 – present
Advisory Board Member	
<b>5th National Climate Assessment</b>	2021 – present
Pacific Islands Region Chapter Author	
<b>The Pew Charitable Trusts</b>	2021 – 2024
Pew Marine Conservation Fellow	
<b>National Center for Ecological Analysis and Synthesis/Palau International Coral Reef Center/Stanford University/Future Earth</b>	2019
Expert Working Group: Managing ocean change and food security	
<b>US Geological Survey (USGS) Powell Center for Analysis and Synthesis/National Socio-Environmental Synthesis Center</b>	2016 – 2020
Building green national accounts for the U.S.	

<b>SERVICE</b>
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*Community*

Global Ocean Accounts Partnership, Technical Panel Member	2023 – current
United Nations Development Program Global Fund for Coral Reefs, Scientific Advisory Group	
	2021 – current
5 <sup>th</sup> National Climate Assessment, Pacific Islands Region Chapter Author	2021 – current
Blue Forest Science Advisor	2020 – current
Division of Aquatic Resources, Holomua Scientific Committee	2018 – current
Palau National Marine Sanctuary, Science and Monitoring Plan Advisory Committee	2022
NOAA Pacific Island Fisheries Science Center program review, External reviewer	2018
West Maui Ridge-to-Reef Initiative, Researcher and science advisor	2012 – 2018
NOAA Coral Reef Conservation Program, Resilience partner	2014 – 2017
Hawai'i Green Growth Initiative, Metrics Committee	2013 – 2016
Hawai'i State Environmental Council, Annual report co-author	2012 – 2017
Blue Ventures Conservation Madagascar, Socio-economic advisor	2009 – 2015

*Academic*

<b>Board Member (At-large)</b>	2014 – 2017
United States Society for Ecological Economics	
<b>Peer Reviewer</b>	2008 – current
Applied Ecology, Coastal Management, Conservation Letters, Contemporary Pacific, Ecological Economics, Ecological Economics Reviews, Ecological Indicators, Ecology and Society, Ecosystem Services, Ecosystems, Environment and Development Economics, Environmental Modeling and Software, Environmental Systems and Decisions, Environmental Values, Fish and Fisheries, Forest Ecology and Management, Frontiers in Marine Science, Geoforum, Inclusive Wealth Report, International Journal of Sustainable Development and World Ecology, Journal of Environmental Economics and Management, Journal of Environmental Management, Journal of Water Resources Planning and Management, Madagascar Conservation and Development, Marine Ecology Progress Series, Marine Policy, Marine Pollution Bulletin, Nature Sustainability, Nature Communications, NOAA-Pacific Island Fisheries Science Center, PeerJ, PLoS Biology, PLoS One, Proceedings of the National Academy of Sciences, United Nations Inclusive Wealth Report, US Environmental Protection Agency, Water, Western Indian Ocean Journal of Marine Science	
<b>Proposal Reviewer</b>	
National Science Foundation (CNH2, DISES)	2020, 2021
PICASC	2021

Social Science and Humanities Research Council of Canada	2015
US National Science Foundation (Arctic Observing Network)	2015
<b>Scientific Evaluation Conference Committee</b>	
International Coral Reef Symposium, Bremen, Germany	2021
Hawai'i Conservation Conference, Honolulu, HI	2018
US Society for Ecological Economics Annual Conference. Minneapolis, MN	2017
International Coral Reef Symposium, Honolulu, HI	2016
<b>Professional Memberships</b>	
American Geophysical Union	
Association for Environmental and Resource Economics	
International Coral Reef Society	
International Society for Ecological Economics	
US Society for Ecological Economics	
<i>University</i>	
<b>University of Hawai'i at Mānoa</b>	
<b>University-wide</b>	
Water Resources Research Center. Affiliate faculty	2015 – current
University of Hawai'i Economic Research Organization. Affiliate faculty	2015 – current
Ad hoc tenure and promotion review committee	2020
Chancellor's Working Group on Sustainability (Graduate curriculum)	2013 – 2016
Tester's student research symposium judge	2014
<b>College of Tropical Agriculture and Human Resources</b>	
Annual student symposium judge	2012, 2013, 2014, 2015
Faculty senate	2015 – 2017
Future of Food speaker series committee	2015
<b>NREM Department</b>	
Department personnel committee	2023 – current
Graduate program chair	2018 – 2021
Graduate committee	2012
Curriculum committee (Chair for 2015)	2012 – 2015
NREM visioning committee	2012
Applied economist search committee (Chair)	2019, 2020
Environmental social scientist search committee	2020
Wildlife committee (Co-chair)	2015
Fiscal officer personnel search committee	2015
Soil Science personnel search committee	2013

<b>TRAINING</b>
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Decision Analysis Certification Program – Natl. Conservation Training Center	2016 – current
Reproducible Research Techniques for Synthesis – NCEAS, online	2021
NVIVO – Stanford University, online	2020
QGIS – Wildlife Conservation Society, online	2020
R – National Conservation Training Center, online	2020
Teaching Socio-Environmental Synthesis with Case Studies – SESYNC, Annapolis, MD	2015
Structural Equation Modeling – J.B. Grace, Honolulu, HI	2015
Bayesian Modeling – Social Environmental Synthesis Center (SESYNC), Annapolis, MD	2015
Climate Smart Design – National Oceanic & Atmospheric Administration (NOAA) Honolulu, HI	2014

Artificial Intelligence for Ecosystem Services – Basque Centre for Climate Change, Spain  
Foreign languages: Dutch (fluent), Spanish (proficient), French (proficient)

2013