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EDUCATION

- 1997- 98 **National Research Council Postdoctoral Associate**-NOAA/Pacific Fisheries
Environmental Laboratory. Pacific Grove, California
- 1991-96 **Ph.D. Zoology (Marine biology)**-University Hawai'i Mānoa
- 1985-87 **M.S. Oceanography**-Old Dominion University
- 1976-80 **B.S. Biology**-Roanoke College

PROFESSIONAL EXPERIENCE

- 2024-25 **Senior Director of Research**, National Geographic Society, Pristine Seas Program
- 2020- **Senior Researcher**, Millennium Institute for Ecology and Sustainable Management of
Oceanic Islands at the Universidad Católica del Norte, Coquimbo, Chile
- 2019- **Faculty** – Biocultural Initiative of the Pacific, University of Hawai'i Mānoa
- 2014- **Adjunct Researcher**-Universidad Católica del Norte, Coquimbo, Chile
- 2014-23 **Chief Scientist**-National Geographic Society, Pristine Seas Program
- 2013- **Affiliate Graduate Faculty**-Marine Biology, University of Hawai'i Mānoa
- 2013- **Affiliate Faculty**-Natural Resources & Environmental Mangt, Univ. Hawai'i Mānoa
- 2012- **Affiliate Graduate Faculty**-Tropical Conserv. Biol. & Environ. Science, Univ.
Hawai'i Hilo
- 2010-20 **Collaborating Scientist**-Charles Darwin Foundation, Galapagos
- 2009-13 **Adjunct Associate Professor**-Department of Biology, University of Hawai'i Mānoa
- 2009-13 **Assist. Leader**-USGS-Hawai'i Coop. Fishery Research Unit, Univ. of Hawai'i Mānoa
- 2008-09 **Affiliate Faculty**-Marine Studies, Univ. of the South Pacific
- 2008-12 **Affiliate Faculty**-Marine Science, Hawai'i Pacific University
- 2004- **Affiliate Faculty**-Hawai'i Institute of Marine Biology. Univ. of Hawai'i Mānoa
- 2002-08 **Pacific Coral Reef Science Coordinator**-NOAA/NOS/ NCCOS – Biogeo. Branch
- 2001- **Adjunct Faculty**-Ecology, Evolution, & Conserv. Biology, Univ. of Hawai'i Mānoa
- 1998-08 **Research Scientist, Fisheries Ecologist**-The Oceanic Institute, Waimanalo, Hawai'i
- 1995 **Graduate Teaching Assistant**-Dept. Zoology. University of Hawai'i Manoa
- 1991-95 **Graduate Research Assist.** - Coop Fishery Research Unit, Univ. Hawai'i Manoa
- 1990-91 **Marine Biologist**-Virgin Islands National Park, St. John, US Virgin Islands
- 1988-90 **Fisheries Biologist**-Div. of Fish and Wildlife, Government of the U.S. Virgin Islands
- 1987 **Marine Fisheries Biologist**-Dept. of Fisheries & Aquaculture, University of Florida
- 1985-87 **Graduate Research Assistant**-Dept. of Oceanography, Old Dominion University
- 1982-84 **Fisheries Extension Officer**-U.S. Peace Corps, Kingdom of Tonga

PEER-REVIEWED PUBLICATIONS

- Millage KD, Mayorga J, Orofino S, Atwood TB, **Friedlander AM**, The LSL, Palomares MLD,
Sumalia UR, Sala E. 2026. The value of bottom trawling in Europe. *Ocean & Coastal
Management*. <https://doi.org/10.1016/j.ocecoaman.2026.108135>
- Baroliya H, Anagnostoudi T, Oron S, Sala E, **Friedlander AM**, Goodman-Tchernov B. 2026.
Foraminifera community assemblages from the southern Maldivian Archipelago: A helpful

- baseline for future environmental assessments. *Marine Micropaleontology* 204:102574. <https://doi.org/10.1016/j.marmicro.2026.102574>
- Friedlander AM**, Wedding LM, Antolini D, Brown EK, Stephenson C, Stuart CE, Yagodich JL, Puniwai N. 2026. Applying a seascape ecology approach enables biophysical and eco-cultural evaluation of marine protected areas. *Landscape Ecology* 41: 47(2026). <https://doi.org/10.1007/s10980-026-02310-5>
- Nerfa L, Fay JM, Earl A, **Friedlander AM**, Sala E, Ticktin T. 2026. Influence of land-use history and ENSO on the flora of the Southern Line Islands. *PLoS One* 21(2): e0341582. <https://doi.org/10.1371/journal.pone.0341582>
- Paul Costesec EL, Morais RA, Schiettekatte NMD, Barneche DR, Casey JM, Brandl SJ, Strona G, Coghlan AR, Stuart-Smith RD, Delecambre Z, Nunes LT, Floeter SR, **Friedlander AM**, Edgar GJ, Mouillot D, Semmler R, Dubé CE, Danis B, Parravicini V. 2026. Modelling trophic networks reveals global patterns in topology and functioning on coral reef ecosystems. *Science Advances*. In Press.
- Vera-Duarte J, Carrasco SA, Mettifogo B, Gaymer CF, **Friedlander AM**, Wahle RA, Palma Á, Hinojosa IA. 2025. The impact of the rise in the abundance of the long-spined sea urchin (*Centrostephanus sylviae*) on coastal marine ecosystems of the Juan Fernández Archipelago, Chile. *ICES Journal of Marine Science*. 82(5):fsaf067. <https://doi.org/10.1093/icesjms/fsaf067>
- Delecambre Z, Marais RA, Siqueira AC, Costesec EP, Dubé CE, Floeter SR, **Friedlander AM**, Leprieur F, Letourneur Y, Nunes LT, Casey JM, Parravicini V. 2025. Ecological specialization drives the global biogeography of reef fishes. *Global Ecology and Biogeography*. GEB-2024-0369. <https://doi.org/10.1111/geb.70050>
- Gilmour ME, Pollock K, Adams J, Block BA, Caselle JE, Filous A, **Friedlander AM**, Game ET, Hazen EL, Hill M, Holmes ND, Lafferty KD, Maxwell SM, McCauley DJ, Schallert R, Shaffer SA, Wolff NH, Wegmann A. 2025. Multi-species telemetry quantifies current and future efficacy of a remote marine protected area. *Global Change Biology*. 31:e70138. <https://doi.org/10.1111/gcb.70138>
- Vave R, **Friedlander AM**, Kittinger JN, Ticktin T. 2004. Cultural ecosystem services and the conservation challenges for an Indigenous people's aquatic protected area practice. *Conservation Biology*. 38(6):e14403. <https://doi.org/10.1111/cobi.14403>
- Caldwell IR, McClanahan TR, Oddenyo RM, Graham NAJ, Beger M, Vigliola L, Sandin SA, **Friedlander AM**, et al. 2024. Protection efforts have resulted in ~10% of existing fish biomass on coral reefs. *Proceedings of the National Academy of Sciences*. 121(42): e2308605121. <https://doi.org/10.1073/pnas.2308605121>
- Dueñas LF, Bolaños-Cubillos, Abrial-Howard A, Mayorga JS, **Friedlander AM**, Goodell W. 2024. First Record of *Bathynomus giganteus* A. Milne-Edwards, 1879 (Crustacea: Isopoda) in Oceanic Waters of the Western Colombian Caribbean. *Caribbean Journal of Science* 54:185–188. <https://doi.org/10.18475/cjos.v54i2.a1>
- Gaymer CF, Wagner D, Álvarez-Varas R, Boteler B, Bravo L, Brooks CM, Chavez-Molina V, Currie D, Delgado J, Dewitte B, Easton EE, **Friedlander AM**, et al. 2024. Research advances and conservation needs for the protection of the Salas y Gómez and Nazca ridges: A natural and cultural heritage hotspot in the southeastern Pacific ocean. *Marine Policy*. 171:106453. <https://doi.org/10.1016/j.marpol.2024.106453>
- McClanahan TR, **Friedlander AM**, Wickel J, Graham NAJ, Bruggemann JH, Guillaume MMM, Chabanet P, Porter S, Schleyer MH, Azali MK, Muthiga NA. 2024. Testing for concordance

between predicted species richness, past prioritization, and marine protected area designations in the western Indian Ocean. *Conservation Biology*.

<https://doi.org/10.1111/cobi.14256>

- Letessier TB, Mouillot D, Mannocci L, Jabour Christ H, Elamin EM, Elamin SM, **Friedlander AM**, Hearn A, Juhel JB, Kleiven AR, Moland E, Mouquet N, Nillos-Kleiven PJ, Sala E, Thompson CDH, Velez L, Vigliola L, Meeuwig JJ. 2024. Divergent responses of pelagic and benthic fish body-size structure to remoteness and protection from humans. *Science*. 383:976-982. DOI: [10.1126/science.adi7562](https://doi.org/10.1126/science.adi7562)
- McClanahan TR, **Friedlander AM**, Chabanet P, Bruggemann JH, Wickel J, Azali MK. 2024. Modeling the spatial distribution of numbers of coral reef fish species and community types in the Western Indian Ocean faunal province. *Marine Ecology Progress Series*. 730:59-78. DOI: <https://doi.org/10.3354/meps14538>
- Oron S, **Friedlander AM**, Sala E, Goodman-Tchernov BN. 2024. Shallow water foraminifera from Niue and Beveridge Reef (South Pacific): insights into ecological significance and ecosystem integrity. *Royal Society Open Science*. 11(1):230997. <https://doi.org/10.1098/rsos.230997>
- Friedlander AM**, Ballesteros, Adler AM, Goodell W, Jenkinson R, Knopp JA, Thompson CDH, Timmers M, Walsh CAJ, Sala E. 2023. Shallow subtidal marine benthic communities of Nachvak Fjord, Nunatsiavut, Labrador: a glimpse into species composition and drivers of their distribution. *PLoS ONE* 18(11): e0293702. <https://doi.org/10.1371/journal.pone.0293702>
- Thompson CDH, Meeuwig JJ, **Friedlander AM**, Sala E. 2023. Remote seamounts are key conservation priorities for pelagic wildlife. *Conservation Letters*, e12993. <https://doi.org/10.1111/conl.12993>
- Heidrich K, Meeuwig JJ, Juan-Jordá MJ, Palomares MLD, Pauly D, Thompson CDH, **Friedlander AM**, Sala E, Zeller D. 2023. Multiple lines of evidence highlight the dire straits of yellowfin tuna in the Indian Ocean. *Ocean and Coastal Management*. 246: 106902. <https://doi.org/10.1016/j.ocecoaman.2023.106902>
- Sala E, Mayorga J, Bradley D, Cabral RB, Atwood TB, Auber A, Cheung W, Costello C, Ferretti F, **Friedlander AM**, Gaines SD. 2023. Reply to: Global effects of marine protected areas on food security are unknown. *Nature*. 621(7979):E37-40. <https://doi.org/10.1038/s41586-023-06494-7>
- Spalding AK, Grorud-Colvert K, Allison EH, Amon DJ, Collin R, de Vos A, Friedlander AM, Johnson SM, Mayorga J, Paris CB, Scott C. 2023. Engaging the tropical majority to make ocean governance and science more equitable and effective. *npj Ocean Sustainability* 2: 8 (2023). <https://doi.org/10.1038/s44183-023-00015-9>.
- Serrano O, Inostroza K, Hyndes G, **Friedlander AM**, Serrano E, Rae C, Ballesteros E. 2023. Seagrass Posidonia escarpments support high diversity and biomass of rocky reef fishes. *Ecosphere*: 2023;14:e4599. <https://doi.org/10.1002/ecs2.4599>
- Atwood TB, Sala E, Mayorga J, Bradley D, Cabral RB, Auber A, Cheung W, Ferretti F, **Friedlander AM**, Gaines SD, et al. 2023. Reply to: Quantifying the carbon benefits of ending bottom trawling. *Nature* 617, E3-5. <https://doi.org/10.1038/s41586-023-06015-6>
- Vave R, Burnett KM, **Friedlander AM**. 2023. Balancing culture and survival: An urban-rural socioeconomic assessment of indigenous Fijian funerals in Fiji. *World Development Sustainability*. 2(2023): 100063. <https://doi.org/10.1016/j.wds.2023.100063>
- Weng KC, **Friedlander AM**, Gajdzik L, Goodell W, Sparks RT. 2023. Decreased tourism

- during the COVID-19 pandemic positively affects reef fish in a high use marine protected area. PLoS ONE 18(4): e0283683. <https://doi.org/10.1371/journal.pone.0283683>
- Friedlander AM**, Bukurrou A, Filous A, Muller Karanassos C, Koike H, Koshiha S, Mereb G, Nestor V, Oleson KL, Olsudong D, Oruetamor J. 2023. Assessing and managing charismatic marine megafauna in Palau: Bumphead parrotfish (*Bolbometopon muricatum*) and Napoleon wrasse (*Cheilinus undulatus*). Aquatic Conservation: Marine and Freshwater Ecosystems. 33(4): 349-365. <https://doi.org/10.1002/aqc.3929>
- Friedlander AM**, Ballesteros E, Caselle JE, Hüne M, Adler AM, Sala E. 2023. Patterns and drivers of benthic macroinvertebrate assemblages in the kelp forests of southern Patagonia. PLoS ONE. 18(1):e0279200. <https://doi.org/10.1371/journal.pone.0279200>
- Sandin SA, Becker PA, Becker C, Brown K, Erazo NG, Figuerola C, Fisher RN, **Friedlander AM**, Fukami T, Graham NA, Gruner DS. 2022. Harnessing island–ocean connections to maximize marine benefits of island conservation. Proceedings of the National Academy of Sciences. 119(51):e2122354119. <https://doi.org/10.1073/pnas.2122354119>
- Boteler B, Wagner D, Durussel C, Stokes E, Gaymer CF, **Friedlander AM**, Dunn DC, Vargas FP, Veliz D and Hazin C. 2022. Borderless conservation: Integrating connectivity into high seas conservation efforts for the Salas y Gomez and Nazca ridges. Frontiers in Marine Science. 9:915983. <https://doi.org/10.3389/fmars.2022.915983>
- Friedlander AM**, Ballesteros E, Breedy O, Naranjo-Elizondo B, Hernández N, Salinas-de-León P, Sala E, Cortés J. 2022. Nearshore marine biodiversity of Osa Peninsula, Costa Rica: Where the ocean meets the rainforest. PLoS ONE. 17(7):e0271731. <https://doi.org/10.1371/journal.pone.0271731>
- Tortolero-Langarica JJ, Clua E, Rodríguez-Zaragoza FA, Caselle JE, Rodríguez-Troncoso AP, Adjeroud M, **Friedlander AM**, Cupul-Magaña AL, Ballesteros E, Carricart-Ganivet JP, Brown EK. 2022. Spatial and temporal patterns in the coral assemblage at Clipperton Atoll: a sentinel reef in the Eastern Tropical Pacific. Coral Reefs. 41:1405-1415. <https://doi.org/10.1007/s00338-022-02290-3>
- Sala E, Mayorga J, Bradley D, Cabral RB, Atwood TB, Auber A, Cheung W, Costello C, Ferretti F, **Friedlander AM**, Gaines SD, et al. Reply to: A path forward for analysing the impacts of marine protected areas. 2022. Nature. 607(7917):E3-4. <https://doi.org/10.1038/s41586-022-04775-1>
- Sullivan-Stack J, Aburto-Oropeza O, Brooks CM, Cabral R, Caselle JE, Chan F, Duffy JE, Dunn DC, **Friedlander AM**, et al. 2022. A scientific synthesis of marine protected areas in the United States: status and recommendations. Frontiers in Marine Science 9:849927 <https://doi.org/10.3389/fmars.2022.849927>
- Gilmour ME, Adams J, Block BA, Caselle JE, **Friedlander AM**, Game ET, Hazen EL, Holmes ND, Lafferty KD, Maxwell SM, McCauley DJ. 2022. Evaluation of MPA designs that protect highly mobile megafauna now and under climate change scenarios. Global Ecology and Conservation. Volume 35: e02070. <https://doi.org/10.1016/j.gecco.2022.e02070>
- Filous A, **Friedlander AM**, Toribiong M, Lennox RJ, Mereb G, Golbuu Y. 2022. The movements of yellowfin tuna, blue marlin, and sailfish within the Palau National Marine Sanctuary and the western Pacific Ocean. ICES Journal of Marine Science. 79(2):445-456. <https://doi.org/10.1093/icesjms/fsac010>
- Petit IJ, Gaymer CF, **Friedlander AM**, Gusmao JB. 2022. Depth as a fish refuge from spearfishing at Rapa Nui: Flight behaviour in the Pacific rudderfish *Kyphosus sandwicensis*. Aquatic Conservation: Marine and Freshwater Ecosystems. 32(5): 727-740.

- <https://doi.org/10.1002/aqc.3795>
- Schiettekatte N, Brandl SJ, Casey JM, Graham NA, Barneche DR, Burkepile DE, Allgeier JE, Arias-González JE, Edgar GJ, Ferreira CE, Floeter SR, **Friedlander AM**, et al. 2022. Biological trade-offs underpin coral reef ecosystem functioning. *Nature Ecology & Evolution*. 6:701-708. <https://doi.org/10.1038/s41559-022-01710-5>
- Graco-Roza, C., Aarnio, S., Abrego, N., Acosta, A. T., Alahuhta, J., Altman, J., ... & Soininen, J. 2022. Distance decay 2.0—a global synthesis of taxonomic and functional turnover in ecological communities. *Global Ecology and Biogeography*. 31:1399–1421. <https://doi.org/10.1111/geb.13513>
- Cabral RB, Bradley D, Mayorga J, Goodell W, **Friedlander AM**, Sala E, Costello C, Gaines SD. 2021. Reply to Hilborn: We agree that MPAs can improve fish catch in the South and Southeast Asia. *Proceedings of the National Academy of Sciences*. 118(17):e2100660118. <https://doi.org/10.1073/pnas.2100660118>
- Morales N, Coghlan AR, Easton EE, **Friedlander AM**, Herlan J, Gaymer CF. 2021. Now you see me: first records of the greater amberjack *Seriola dumerili* at Rapa Nui (Easter Island), the result of range extension or increased scientific effort? *Journal of Fish Biology*. 100(3):835-842. <https://doi.org/10.1111/jfb.14983>
- Oron S, **Friedlander AM**, Sala E, Goodman-Tchernov BN. Recent shallow water foraminifera from the Selvagens Islands (Northeast Atlantic)—Assemblage composition and biogeographic significance. *Estuarine, Coastal and Shelf Science*. 2021:107671. <https://doi.org/10.1016/j.ecss.2021.107671>
- McClanahan TR, **Friedlander AM**, Wantiez L, Graham NAJ, Bruggemann JH, Chabanet P, Oddenyo RM. 2021. Best-practice fisheries management associated with reduced stocks and changes in life histories. *Fish and Fisheries* 2021;23:442-444. <https://doi.org/10.1111/faf.12625>
- Petit IJ, Gaymer CF, **Friedlander AM**, Gusmao JB. Human at the top of the food web: are coastal benthic communities at Rapa Nui affected by fishing?. *Environmental Biology of Fishes*. 2021 Oct 23:1-9. doi.org/10.1007/s10641-021-01182-9
- Hüne M, **Friedlander AM**, Ballesteros E, Caselle JE, Sala E. Assemblage structure and spatial diversity patterns of kelp forest-associated fishes in Southern Patagonia. *PloS ONE*. 2021 Sep 20;16(9):e0257662.
- Mora-Soto A, Capsey A, **Friedlander AM**, Palacios M, Brewin PE, Golding N, Dayton P, van Tussenbroek B, Montiel A, Goodell W, Velasco-Charpentier C, Hart T, Macaya EC, Pérez-Matus A, Macias-Fauria M. 2021. One of the least disturbed marine coastal ecosystems on Earth: Spatial and temporal persistence of Darwin’s sub-Antarctic giant kelp forests. *Journal of Biogeography*. 48: 2562-2577. <https://doi.org/10.1111/jbi.14221>
- Cañete I, **Friedlander AM**, Sala E, Figueroa T. 2021. Podding of *Paralomis granulosa* (Lithodidae) juveniles inhabiting kelp forests of the Cape Horn Archipelago (Chile). *Nauplius* 29: <https://doi.org/10.1590/2358-2936e2021031>
- Cabral RB, Bradley D, Mayorga J, Goodell W, **Friedlander AM**, Sala E, Costello C, Gaines SD. 2021. Reply to Ovando et al.: How connected are global fisheries?. *Proceedings of the National Academy of Sciences*. 2021:118(23).
- Friedlander AM**, Goodell W, Giddens J, Easton EE, Wagner D. 2021. Deep-sea biodiversity at the extremes of the Salas y Gómez and Nazca ridges with implications for conservation. *PloS ONE*, 16(6), p.e0253213
- Grorud-Colvert K, Sullivan-Stack J, Roberts C, Constant V, Horta e Costa B, Pike EP, Kingston

- N, Laffoley D, Sala E, Claudet J, **Friedlander AM**, et al. 2021. The MPA guide: a framework to achieve global goals for the ocean. *Science*. 373, eabf0861. DOI: 10.1126/science.abf0861
- Thompson CD, Meeuwig JJ, Brown J, Richardson AJ, **Friedlander AM**, Miller PI, Weber SB. 2021. Spatial variation in pelagic wildlife assemblages in the Ascension Island Marine Protected Area: implications for monitoring and management. *Frontiers in Marine Science*. 8:684
- Muller-Karanassos C, Filous A, **Friedlander AM**, Cuetos-Bueno J, Gouezo M, Lindfield SJ, Nestor V, Marino LL, Mereb G, Olsudong D, Golbuu Y. 2021. Effects of habitat, fishing, and fisheries management on reef fish populations in Palau. *Fisheries Research*. 241:105996
- Friedlander AM**, Ballesteros E, Goodell W, Hüne M, Muñoz A, Salinas-de-León P, Velasco-Charpentier C, Sala E. 2021. Marine communities of the newly created Kawésqar National Reserve, Chile: From glaciers to the Pacific Ocean. *PloS ONE*. 16(4):e0249413
- Friedlander AM**, Gaymer CF. 2021. Progress, opportunities and challenges for marine conservation in the Pacific Islands. *Aquatic Conserv: Mar Freshw Ecosyst*. 2021;31:221-231. <https://doi.org/10.1002/aqc.3464>
- Valez D, Gaymer CF, **Friedlander AM**. 2021. Advances in science for ecology and sustainable management of oceanic islands. *Aquatic Conserv: Mar Freshw Ecosyst*. 2021;31:219–220. DOI: 10.1002/aqc.3587
- Weible, R.M.; Rodgers, K.S.; **Friedlander, A.M.**; Hunter, C.L. Assessing assemblage composition of reproductively mature resource fishes at a community based subsistence fishing area (CBSFA). *Diversity* 2021, 13, 114. <https://doi.org/10.3390/d13030114>
- Wagner D, van der Meer L, Gorny M, Sellanes J, Gaymer CF, Soto EH, Easton EE, **Friedlander AM**, et al. 2021. The Salas y Gomez and Nazca ridges: A review of the importance, opportunities and challenges for protecting a global diversity hotspot on the high seas. *Marine Policy*. 126 (2021): 104377
- Sala E, Mayorga J, Bradley D, Cabral RB, Atwood TB, Auber A, Cheung W, Costello C, Ferretti F, **Friedlander AM**, et al. 2021. Protecting the global ocean for biodiversity, food and climate. *Nature* 592(7854):1-6
- Morales NA, Heidemeyer M, Bauer R, Hernández S, Acuña E, **Friedlander AM**, Gaymer CF. 2021. Residential movements of top predators at Chile’s most isolated Marine Protected Area: implications for the conservation of the Galapagos shark, *Carcharhinus galapagensis*, and the yellowtail amberjack, *Seriola lalandi*. *Aquatic Conserv: Mar Freshw Ecosyst*. 2021;31:340–355.
- McClanahan T, **Friedlander AM**, Graham NA, Chabanet P, Bruggemann JH. 2021. Variability in coral reef fish baseline and benchmark biomass in the central and western Indian Ocean provinces. *Aquatic Conservation: Marine and Freshwater Ecosystems*. 2021;28-42. DOI: 10.1002/aqc.3448
- Wagner D, **Friedlander AM**, Pyle RL, Brooks CM, Gjerde KM, Wilhelm TA. 2020. Coral reefs of the high seas: hidden biodiversity hotspots in need of protection. *Frontiers in Marine Science*. 14;7:776
- Filous A, Lennox RJ, Beauty JP, Bagnis H, McHugh M, **Friedlander AM**, Clua EEG, Cooke SJ, Fuller TK, Danylchuk AJ. 2020. Fisheries science and marine education catalyze the renaissance of traditional management (rahui) to improve an artisanal fishery in French Polynesia. *Marine Policy* 123(2021):10429. doi.org/10.1016/j.marpol.2020.104291
- Friedlander AM**, Goodell W, Salinas-de-León P, Ballesteros E, Berkenpas E, Capurro AP,

- Cárdenas CA, Hüne M, Lager C, Landaeta MF, Muñoz A. Spatial patterns of continental shelf faunal community structure along the Western Antarctic Peninsula. *PloS one*. 2020 Oct 1;15(10):e0239895.
- Giddens J, Salinas-de-León P, **Friedlander A**, Ebert DA, Henning B, Turchik A. 2020. First observation of a *Hydrolagus melanophasma* (Chondrichthyes, Chimaeriformes, Holocephali) aggregation with egg cases extruding from a female. *Marine Biodiversity* 50:91. doi.org/10.1007/s12526-020-01122-3
- Friedlander AM**, Donovan MK, DeMartini EE, Bowen BW. 2020. Dominance of endemics in the reef fish assemblages of the Hawaiian Archipelago. *Journal of Biogeography*. 47:2584-2596. doi.org/10.1111/jbi.13966
- Gruby RL, Gray NJ, Fairbanks L, Havice E, Campbell LM, **Friedlander A**, Oleson KLL, Sam K, Mitchell L, Hanich Q. 2020. Policy interactions in large-scale-marine protected areas. *Conservation Letters*. e12753. https://doi.org/10.1111/cpln.12753
- Papastamatiou YP, Bodey TW, Caselle JE, Bradley D, Freeman R, **Friedlander AM**, Jacoby DMP. 2020 Multiyear social stability and social information use in reef sharks with diel fission–fusion dynamics. *Proc. Royal. Soc. B*. 287: 20201063.
- Filous, A, Lennox RJ, Raveino R., **Friedlander AM**, Clua EE, Cooke J, Danylchuk AJ. 2020. The spawning migrations of an exploited Albulid in the tropical Pacific: implications for conservation and community-based management. *Environmental Biology of Fishes*, pp.1-19. https://doi.org/10.1007/s10641-020-00996-3
- Filous A, **Friedlander AM**, Griffin L, Lennox RJ, Danylchuk AJ, Mereb G, Golbuu Y. 2020. Movements of juvenile yellowfin tuna (*Thunnus albacares*) within the coastal FAD network adjacent to the Palau National Marine Sanctuary: Implications for local fisheries development. *Fisheries Research*. 230:105688
- Cinner JE, Zamborain-Mason J, Gurney GG, Graham NAJ, MacNeil MA, Hoey AS, Mora C, Villeger S, Marie E, McClanahan TR, Maina JM, Kittinger JN, Hicks CC, D’agata S, Huchery C, Barnes ML, Feary DA, Williams ID, Kulbicki M, Vigliola L, Wantiez L, Edgar GJ, Stuart-Smith RD, Sandin SA, Green AL, Beger M, **Friedlander AM**, et al. 2020. Meeting fisheries, ecosystem function, and biodiversity goals in a human dominated world. *Science*. 368:307-311. DOI: 10.1126/science.aax9412
- Stamoulis, K.A., Delevaux, J.M., Williams, I.D., **Friedlander, A.M.**, Reichard, J., Kamikawa, K. and Harvey, E.S., 2020. Incorporating reef fish avoidance behavior improves accuracy of species distribution models. *PeerJ*, 8, p.e9246.
- Dacks R, Ticktin T, Jupiter S, **Friedlander AM**. 2020. Investigating the role of fish and fishing in sharing networks to build resilience in coral reef social-ecological systems. *Coastal Management*. 48:165-187.
- Shalom HY, Granot I, Blowes SA, **Friedlander A**, Mellin C, Ferreira CEL, Arias-González JE, Kulbicki M, Floeter SR, Chabanet P, Parravicini V, Belmaker J. 2020. A closer examination of the ‘abundant centre’ hypothesis for reef fishes. *Journal of Biogeography*. https://doi.org/10.1111/jbi.13920
- Friedlander AM**, Ballesteros E, Bell TW, Caselle JE, Campagna C, Goodell W, et al. 2020. Kelp forests at the end of the earth: 45 years later. *PLoS ONE* 15(3): e0229259.
- Friedlander AM**, Giddens J, Ballesteros E, Blum S, Brown EK, Caselle JE, Henning B, Jost C, Salinas-de-León P, Sala E. 2019. Marine biodiversity from zero to a thousand meters at Clipperton Atoll (Île de La Passion), Tropical Eastern Pacific. *PeerJ*;7:e7279.
- Morales NA, Easton EE, **Friedlander AM**, Harvey ES, Garcia R, Gaymer C. 2019. Spatial and

- seasonal differences in the top predators of Easter Island: Essential data for implementing the new Rapa Nui multiple-uses marine protected area. *Aquatic Conservation*: 29(S2):118-129.
- Letessier TB, Mouillot D, Bouchet PJ, Vigliola L, Fernandes MC, Thompson C, Boussaire G, Turner J, Juhel J-B, Marie E, Caley MJ, Koldeway HJ, **Friedlander A**, Sala E, Meeuwig JJ (2019) Remote reefs and seamounts are the last refuges for marine predators across the Indo-Pacific. *PLoS Biol* 17(8): e3000366.
- Filous, A, Lennox RJ, Danylchuk AJ, **Friedlander AM**. 2019. Manual acoustic tracking reveals the spatial ecology of giant trevally at a remote South Pacific Atoll, with implications for their management. *Atoll Research Bulletin*, 625. <https://doi.org/10.5479/si.9827531.v1>
- Kamikawa KT, Humphreys Jr. RL, Bowen BW, **Friedlander AM**. 2019. Recruitment dynamics and fishery characteristics of juvenile goatfishes *Mulloidichthys* spp. in Hawai'i. *J Fish Biol*. 2019;1–8. <https://doi.org/10.1111/jfb.14101>
- Darling ES, McClanahan TR, Maina JM, Gurney GA, Graham NAJ, Januchowski-Hartley F, Cinner JE, Mora C, Hicks CC, Maire E, Puotinen M, Skirving WJ, Adjeroud M, Ahmadi G, Arthur R, Bauman A, Beger M, Berumen M, Bigot L, Bouwmeester J, Brenier A, Bridge T, Brown E, Campbell S, Cannon S, Cauvin B, Chen C, Claudet J, Denis V, Donner S, Estradivari E, Fadli N, Feary D, Fenner D, Fox H, Franklin E, **Friedlander A**, et al. 2019. Social-environmental drivers inform strategic management of coral reefs in the Anthropocene. *Nature Ecology and Evolution*, <https://doi.org/10.1038/s41559-019-0953-8>.
- McClanahan, T.R., Schroeder, R.E., **Friedlander, A.M.**, Vigliola, L., Wantiez, L., Caselle, J.E., Graham, N.A., Wilson, S., Edgar, G.J., Stuart-Smith, R.D. and Oddenyo, R.M., 2019. Global baselines and benchmarks for fish biomass: comparing remote reefs and fisheries closures. *Marine Ecology Progress Series*, 612:167-192.
- Barneche, D.R., Rezende, E.L., Parravicini, V., Maire, E., Edgar, G.J., Stuart-Smith, R.D., Arias-González, J.E., Ferreira, C.E.L., **Friedlander, A.M.**, Green, A.L. and Luiz, O.J., 2019. Body size, reef area and temperature predict global reef-fish species richness across spatial scales. *Global Ecology and Biogeography*, 28:315-327.
- Giddens J, Goodell W, Friedlander A, Salinas-de-León P, Shepard C, Henning B, Berkenpas E, Sala E, Turchik A. Patterns in bathyal demersal biodiversity and community composition around archipelagos in the Tropical Eastern Pacific. *Frontiers in Marine Science*. *Front. Mar. Sci.* 6:388. Doi: 10.3389/fmars.2019.00388
- Jouffray, J.B., Wedding, L.M., Norström, A.V., Donovan, M.K., Williams, G.J., Crowder, L.B., Erickson, A.L., **Friedlander, A.M.**, Graham, N.A., Gove, J.M. and Kappel, C.V., 2019. Parsing human and biophysical drivers of coral reef regimes. *Proceedings of the Royal Society B*, 286(1896), 20182544.
- Wedding, L.M., Jorgensen, S., Lepczyk, C.A. and **Friedlander, A.M.**, 2019. Remote sensing of three-dimensional coral reef structure enhances predictive modeling of fish assemblages. *Remote Sensing in Ecology and Conservation*. 5:150-159.
- Delevaux, J.M., Stamoulis, K.A., Whittier, R., Jupiter, S.D., Bremer, L.L., **Friedlander, A.**, Kurashima, N., Giddens, J., Winter, K.B., Blaich-Vaughan, M. and Burnett, K.M., 2019. Place-based management can reduce human impacts on coral reefs in a changing climate. *Ecological Applications*, p.e01891. <https://doi.org/10.1002/eap.1891>
- Filous, A., Lennox, R.J., Coleman, R.R., **Friedlander, A.M.**, Clua, E.E. and Danylchuk, A.J., 2019. Life-history characteristics of an exploited bonefish *Albula glossodonta* population in a remote South Pacific Atoll. *Journal of Fish Biology*. 95:562-574.

- Eddy, T.D., **Friedlander, A.M.** and de León, P.S., 2019. Ecosystem effects of fishing & El Niño at the Galápagos Marine Reserve. *PeerJ*, 7, p.e6878.
- Friedlander AM**, Donovan MK, Koike H, Murakawa P, Goodell W. 2019. Characteristics of effective Marine Protected Areas in Hawai‘i. *Aquatic Conservation: Marine and Freshwater Ecosystems*. *Aquatic Conservation*, 29(S2):103-117. DOI: 10.1002/aqc.3043
- Chung AE, Wedding LM, Green AL, **Friedlander AM**, Goldberg G, Meadows A and Hixon MA. 2019. Building Coral Reef Resilience Through Spatial Herbivore Management. *Frontiers in Marine Science*. 6:98.doi: 10.3389/fmars.2019.00098
- Clua E., Bessudo S., Caselle J., Chauvet C., Jost C., **Friedlander A.** 2019. Population assessment of the endemic angelfish *Holacanthus limbaughii* from Île de La Passion-Clipperton Atoll (Tropical Eastern Pacific), *Endangered Species Research* 38:171-176. DOI: <https://doi.org/10.3354/esr00947>
- Friedlander AM**, Donovan MK, Stamoulis KA, Williams I, Brown E, Conklin EJ, DeMartini EE, Rodgers KS, Sparks RT, Walsh WJ. 2018. Human-induced gradients of reef fish declines in the Hawaiian Archipelago viewed through the lens of traditional management boundaries. *Aquatic Conservation: Marine and Freshwater Ecosystems*, 28:146-157.
- Donovan, M.K., **Friedlander, A.M.**, Lecky, J., Jouffray, J.B., Williams, G.J., Wedding, L.M., Crowder, L.B., Erickson, A.L., Graham, N.A., Gove, J.M. and Kappel, C.V., 2018. Combining fish and benthic communities into multiple regimes reveals complex reef dynamics. *Scientific Reports*, 8(1), p.16943.
- Jones, K.R., Klein, C.J., Halpern, B.S., Venter, O., Grantham, H., Kuempel, C.D., Shumway, N., **Friedlander, A.M.**, Possingham, H.P. and Watson, J.E., 2018. The location and protection status of Earth’s diminishing marine wilderness. *Current Biology*, 28:2506-2512.
- Stamoulis, K.A., Harvey, E.S., **Friedlander, A.M.**, Williams, I.D., Weng, K.C., Wiggins, C., Wagner, G.W. and Conklin, E.J., 2019. Flight behavior of targeted fishes depends on variables other than fishing. *Ecological Indicators*, 96:579-590.
- Winter, K., Beamer, K., Vaughan, M., **Friedlander, A.**, Kido, M., Whitehead, A., Akutagawa, M., Kurashima, N., Lucas, M. and Nyberg, B., 2018. The Moku System: Managing biocultural resources for abundance within social-ecological regions in Hawai‘i. *Sustainability*, 10(10), p.3554.
- Cinner, J.E., Maire, E., Huchery, C., MacNeil, M.A., Graham, N.A., Mora, C., McClanahan, T.R., Barnes, M.L., Kittinger, J.N., Hicks, C.C., D’Agata, S., Hoey, A.S., Gurney, G.G., Feary, D.A., Williams, I.D., Kulbicki, M., Vigliola, L., Wantiez, L., Edgar, G.J., Stuart-Smith, R.D., Sandin, S.A., Green, A., Hardt, M.J., Beger, M, **Friedlander, A.M.** and 12 others. 2018. Gravity of human impacts mediates coral reef conservation gains. *Proceedings of the National Academy of Sciences*, p.201708001.
- Crane, N.L., Taniel, J., Caselle, J.E., **Friedlander, A.M.**, Robertson, D.R. and Bernardi, G., 2018. Clipperton Atoll as a model to study small marine populations: Endemism and the genomic consequences of small population size. *PloS ONE*, 13(6), p.e0198901.
- Papastamatiou, Y.P., Watanabe, Y.Y., Demšar, U., Leos-Barajas, V., Bradley, D., Langrock, R., Weng, K., Lowe, C.G., **Friedlander, A.M.** and Caselle, J.E., 2018. Activity seascapes highlight central place foraging strategies in marine predators that never stop swimming. *Movement Ecology*, 6:1-15.
- Pickholtz, R.S., Kiflawi, M., **Friedlander, A.M.** and Belmaker, J., 2018. Habitat utilization by an invasive herbivorous fish (*Siganus rivulatus*) in its native and invaded range. *Biological Invasions*, 20:3499-3512.

- Friedlander, A.M.**, 2018. Marine conservation in Oceania: Past, present, and future. *Marine Pollution Bulletin*, 135:139-149.
- Friedlander, A.M.**, Ballesteros, E., Bell, T.W., Giddens, J., Henning, B., Hüne, M., Muñoz, A., Salinas-de-León, P. and Sala, E., 2018. Marine biodiversity at the end of the world: Cape Horn and Diego Ramírez islands. *PloS one*, 13(1), p.e0189930.
- McCoy, K.S., Williams, I.D., **Friedlander, A.M.**, Ma, H., Teneva, L. and Kittinger, J.N., 2018. Estimating nearshore coral reef-associated fisheries production from the main Hawaiian Islands. *PloS one*, 13(4), p.e0195840.
- Delevaux, J.M., Whittier, R., Stamoulis, K.A., Bremer, L.L., Jupiter, S., **Friedlander, A.M.**, Poti, M., Guannel, G., Kurashima, N., Winter, K.B. and Toonen, R., 2018. A linked land-sea modeling framework to inform ridge-to-reef management in high oceanic islands. *PloS ONE*, 13(3), p.e0193230.
- Delaney, D.G., Teneva, L.T., Stamoulis, K.A., Giddens, J.L., Koike, H., Ogawa, T., **Friedlander, A.M.** and Kittinger, J.N., 2017. Patterns in artisanal coral reef fisheries revealed through local monitoring efforts. *PeerJ*, 5, p.e4089.
- Dacks R, Ticktin T, Jupiter S, **Friedlander A.**, 2018. Drivers of fishing at the household scale in Fiji. *Ecology and Society*, 23(1):37.
- O’Leary, B.C., Ban, N.C., Fernandez, M., Friedlander, A.M., García-Borboroglu, P., Golbuu, Y., Guidetti, P., Harris, J.M., Hawkins, J.P., Langlois, T. and McCauley, D.J., 2018. Addressing Criticisms of Large-Scale Marine Protected Areas. *BioScience*, 68:359-370.
- Easton, E.E., Gaymer, C.F., **Friedlander, A.M.** and Herlan, J.J., 2018. Effects of herbivores, wave exposure and depth on benthic coral communities of the Easter Island ecoregion. *Marine and Freshwater Research*, 69:997-1006.
- Wedding, L.M., Lecky, J., Gove, J.M., Walecka, H.R., Donovan, M.K., Williams, G.J., Jouffray, J.B., Crowder, L.B., Erickson, A., Falinski, K. and Friedlander, A.M., 2018. Advancing the integration of spatial data to map human and natural drivers on coral reefs. *PloS ONE*, 13(3), p.e0189792.
- Stamoulis KA, Delevaux JM, Williams ID, Poti M, Lecky J, Costa B, Kendall MS, Pittman SJ, Donovan MK, Wedding LM, Friedlander AM. 2018. Seascape models reveal places to focus coastal fisheries management. *Ecological applications*. 28(4):910-925.
- Papastamatiou, Y, Bodey, T, **Friedlander A**, Lowe C, Bradley D, Weng, K, Priestley V, Caselle, J. 2017. Spatial separation without territoriality in shark communities. *Oikos*. OIK-04289.R2. <https://doi.org/10.1111/oik.04289>.
- Goodell W, Stamoulis KA, **Friedlander AM**. 2017. Coupling remote sensing with *in situ* surveys to determine reef fish habitat associations for the design of marine protected areas. *Mar. Ecol. Prog. Ser.* 588: 121-134. DOI: <https://doi.org/10.3354/meps12388>
- Friedlander AM**, Ballesteros E, Clemente S, Gonçalves EJ, Estep A, Rose, P, Sala E. 2017. Contrasts in the marine ecosystem of two Macaronesian islands: a comparison between the remote Selvagens Reserve and Madeira Island. *PLoS ONE*.12(11): e0187935.
- Kikiloi K, **Friedlander AM**, Wilhelm A, Lewis N, Quiocho K, Aila W Jr, Kaho’ohalahala S. 2017. Papahānaumokuākea: Integrating culture in the design and management of one of the world’s largest marine protected areas. *Coastal Management* 45(6):436-451.
- Christie P, Bennett NJ, Gray NJ, Wilhelm TA, Lewis N, Parks J, Ban NC, Gruby RL, Gordon L, Day J, Tai S, **Friedlander AM**. 2017. Why people matter in ocean governance: incorporating human dimensions into large scale marine protected areas. *Marine Policy* 84: 273-284.

- Filous, A., **Friedlander, A.M.**, Koike, H., Lammers, M., Wong, A., Stone, K. and Sparks, R.T., 2017. Displacement effects of heavy human use on coral reef predators within the Molokini Marine Life Conservation District. *Marine Pollution Bulletin* 121:274-281.
- Giddens JL, Wiggins C, Friedlander AM, Conklin EJ, Stamoulis KA, Minton D. 2018. Assemblage-level effects of the introduced Peacock hind (*Cephalopholis argus*) on Hawaiian reef fishes. *Environmental Biology of Fishes*. 101:275–286
<https://doi.org/10.1007/s10641-017-0697-8>
- Elise, S., Urbina-Barreto, I., Boadas-Gil, H., Galindo-Vivas, M., Arias-González, J.E., Floeter, S.R., **Friedlander, A.M.**, Nemeth, M. and Kulbicki, M., 2017. Archipelago Los Roques: A potential baseline for reef fish assemblages in the southern Caribbean. *Aquatic Conservation: Marine and Freshwater Ecosystems*, 27(6), pp.1116-1132.
- Lennox RJ, Filous A, Danylchuk SC, Cooke SJ, Brownscombe JW, **Friedlander AM**, Danylchuk AJ. 2017. Factors influencing post-release predation for a catch-and-release tropical flats fishery with a high predator burden. *North American Journal of Fisheries Management* 37:1045-1053.
- Friedlander AM**, Golbuu Y, Ballesteros E, Caselle JE, Gouezo M, Olsudong D, Sala E. 2017. Size, age, and habitat determine effectiveness of Palau's Marine Protected Areas. *PLoS ONE* 12(3): e0174787. <https://doi.org/10.1371/journal.pone.0174787>
- Stamoulis KA, **Friedlander AM**, Meyer CG, Fernandez-Silva I, Toonen RJ. 2017. Coral reef grazer-benthos dynamics complicated by invasive algae in a small marine reserve. *Scientific Reports* 7, 43819; doi: 10.1038/srep43819.
- Filous A, **Friedlander A**, Wolfe B, Sparks R. 2017. Movement patterns of reef predators in a small isolated Marine Protected Area with implications for resource management. *Marine Biology*, 164(1). DOI: 10.1007/s00227-016-3043-3
- Schemmel EM, **Friedlander AM**. 2017. Participatory fishery monitoring is successful for understanding the reproductive biology needed for local fisheries management. *Environ Biol Fish* 100:171–185
- Schemmel E, **Friedlander AM**, Andrade P, Keakealani K, Castro LM, Wiggins C, Wilcox BA, Yasutake Y, Kittinger JN. 2016. The codevelopment of coastal fisheries monitoring methods to support local management. *Ecology and Society* 21(4):34. DOI: 10.5751/ES-08818-210434
- D'agata S, Vigliola L, Graham NAJ, Wantiez L, Parravicini V, Villéger S, Mou-Tham G, Frolla P, **Friedlander A**, Mouillot D. 2016. Additional information from Unexpected high vulnerability of functions in wilderness areas: evidence from coral reef fishes. *The Royal Society*. <https://doi.org/10.6084/m9.figshare.4220178>
- D'agata S, Vigliola L, Graham NAJ, Wantiez L, Parravicini V, Villéger S, Mou-Tham G, Frolla P, **Friedlander A**, Mouillot D. 2016. Unexpected high vulnerability of functions in wilderness areas: evidence from coral reef fishes. *Proc. R. Soc. B*.28320160128
<http://doi.org/10.1098/rspb.2016.0128>
- Usseglio P, **Friedlander AM**, Koike H, Zimmerhackel J, Schumbauer A, Eddy T, Salinas-de-Leon P. 2016. So long and thanks for all the fish: overexploitation of the regionally endemic Galapagos Grouper *Mycteroperca olfax* (Jenyns, 1840). PONE-D-16-01659R2
- D'agata S, Mouillot D, Wantiez L, **Friedlander A**, Kulbicki M, Vigliola L. 2016. Marine reserves lag behind wilderness in the conservation of key functional roles. *Nature Communications*. NCOMMS-15-06526D. doi:10.1038/ncomms12000
- Cinner, J.E., Huchery, C., MacNeil, M.A., Graham, N.A., McClanahan, T.R., Maina, J., Maire,

- E., Kittinger, J.N., Hicks, C.C., Mora, C., Allison EH, D'agata S, Hoey A, Feary DA, Crowder L, Williams ID, Kulbicki M, Vigliola L, Wantiez L, Edgar G, Stuart-Smith RD, Sandin SA, Green AL, Hardt MJ, Beger M, **Friedlander A**, et al. 2016. Bright spots among the world's coral reefs. *Nature* 535: 416-419
- Schemmel E, Donovan M, Wiggins C, Anzivino M, **Friedlander AM**. 2016. Reproductive life history of roi, the introduced peacock grouper (*Cephalopholis argus*, Bloch and Schneider 1801), in Hawaii. *Journal of Fish Biology* 89: 1271-1284
- Salinas de León P, Acuña-Marrero D, Rastoin E, **Friedlander AM**, Donovan MK, Sala E. (2016) Largest global shark biomass found in the northern Galápagos Islands of Darwin and Wolf. *PeerJ* 4:e1911 <https://doi.org/10.7717/peerj.1911>
- Selkoe, Kimberly A., et al. 2016. The DNA of coral reef biodiversity: predicting and protecting genetic diversity of reef assemblages. *Proc. R. Soc. B*. Vol. 283. DOI: 10.1098/rspb.2016.0354
- Donovan MK, **Friedlander AM**, Usseglio P, Goodell W, Iglesias I, Schemmel EM, et al. (2016) Effects of gear restriction on the abundance of juvenile fishes along sandy beaches in Hawai'i. *PLoS ONE* 11(5): e0155221. doi:10.1371/journal.pone.0155221
- Friedlander AM**, Wagner D, Gaymer CF, Wilhelm TA, Lewis N, Brooke S, Kikiloi K. Varmer O. 2016. Cooperation between large-scale MPAs: successful experiences from the Pacific Ocean. *Aquatic Conserv: Mar. Freshw. Ecosyst.* 26 (Suppl. 2): 126–141
- Mellin C, Mouillot D, Kulbicki M, McClanahan T, Vigliola L, Bradshaw C, Brainard R, Chabanet P, Edgar G, Fordham D, **Friedlander A**, Parravicini V, Sequeria A, Stuart-Smith R, Wantiez L, Caley M. 2016. Humans and seasonal climate variability threaten large-bodied coral reef fish with small ranges. *Nature Communications* NCOMMS-14-17631C.
- Gove J, McManus M, Neuhemier A, Polovina J, Drazen J, Smith C, Merrifield M, **Friedlander A**, Eheses J, Young C, Dillon A, Williams G. 2016. Ocean oases: near-island biological hotspots in barren ocean basins. *Nature Communications* 7 (2016).
- Barneche DR, Kulbicki M, Floeter SR, **Friedlander AM**, Allen AP. 2016 Energetic and ecological constraints on population density of reef fishes. *Proc. R. Soc. B*. 20152186. <http://dx.doi.org/10.1098/rspb.2015.2186>
- Pla-Rabes S. Hamilton PB, Ballesteros E, Gavrilo M, **Friedlander AM**, Sala E. 2016. The structure and diversity of freshwater diatom assemblages from Franz Josef Land Archipelago: a northern outpost for freshwater diatoms. *PeerJ* 4:e1705; DOI 10.7717/peerj.1705
- Friedlander AM**, Ballesteros E, Caselle JE, Gaymer CF, Palma AT, Petit I, Varas E, Muñoz Wilson A, Sala E. 2016. Marine Biodiversity in Juan Fernández and Desventuradas Islands, Chile: Global Endemism Hotspots. *PLoS ONE* 11(1): e0145059. doi:10.1371/journal.pone.0145059
- Hernández S, García M, Gaymer CF, **Friedlander AM**. 2015. First Records of Striped Boarfish *Evistias acutirostris* and Ornate Butterflyfish *Chaetodon ornatissimus* from Easter Island. *Pacific Science*. 69:525–529
- Usseglio P, **Friedlander AM**, DeMartini EE, Schuhbauer A, Schemmel E, Salinas de León P. 2015. Improved estimates of age, growth and reproduction for the regionally endemic Galapagos sailfin grouper *Mycteroperca olfax* (Jenyns, 1840) *PeerJ* 3:e1270 <https://dx.doi.org/10.7717/peerj.1270>
- Wedding LM, Reiter S.M, Smith CR, Gjerde KM, Kittinger J, **Friedlander AM**, Gaines SD, Clark MR, Thurnherr A, Hardy S, Crowder LB. 2015. Managing Exploitation of the Deep

- Seabed. Science. 349:144-145. DOI: 10.1126/science.aac6647
- McNeil AM, Graham NAJ, Cinner JE, Wilson SK, Williams ID, Maina J, Newman S, **Friedlander AM**, Jupiter S, Polunin NVC, McClanahan TR. 2015. Recovery potential of the world's coral reef fishes. *Nature*, 520(7547), 341-344.
- Kamikawa KT, **Friedlander AM**, Harding KK, Filous A, Donovan MK, Schemmel E. 2015. Bonefishes in Hawai'i and the importance of angler-based data to inform fisheries management. *Environmental Biology of Fishes* 98:2147-2157.
- Kittinger J, Teneva L, Koike H, Stamoulis K, Kittinger D, Oleson K, Conklin E, Gomes M, Wilcox B, **Friedlander A**. 2015. From Reef to Table: Social and Ecological Factors Affecting Coral Reef Fisheries, Artisanal Seafood Supply Chains, and Seafood Security. *PLoS ONE* 10(8): e0123856. doi:10.1371/journal.pone.0123856
- Donovan MK, **Friedlander AM**, Harding KK, Schemmel, Filous A, Kamikawa KT, Torkelson N. 2015. Ecology and niche speciation of two bonefish species in Hawaii. *Environmental Biology of Fishes* 98:2159-2171.
- Chernova NV, **Friedlander AM**, Turchik A, Sala E. 2014. Franz Josef Land: extreme northern outpost for Arctic fishes. *PeerJ*, 2, e692.
- McMillen, H., Ticktin T, **Friedlander A**, Jupiter S, Thaman R, Vietayaki J, Giambelluca T, Campbell J, Rupeni E, Apis-Overhoff L, Aalbersberg B, Orcheron DF. 2014. Small islands, valuable insights: systems of customary resource management and resilience in the Pacific. *Ecology and Society*. 19(4): 44. <http://dx.doi.org/10.5751/ES-06937-190444>
- Friedlander AM**, Ballesteros E, Fay M, Sala E. 2014. Marine communities on oil platforms in Gabon, West Africa: high biodiversity oases in a low biodiversity environment. *PLoS ONE* 9(8): e103709. doi:10.1371/journal.pone.0103709.
- Grorud-Colvert K, Claudet J, Tissot BN, Caselle JE, Carr MH, Day JC, **Friedlander AM**, Lester SE, de Loma TL, Malone D, Walsh WJ. 2014. Marine protected area networks: assessing whether the whole is greater than the sum of its parts. *PLoS ONE* 01/2014; 9(8):e102298
- Giddens J, **Friedlander AM**, Conklin E, Wiggins C, Stamoulis K, Donovan MK. 2014. Experimental removal of the invasive Peacock Hind, roi (*Cephalopholis argus*) in Puakō, Hawai'i: methods for assessing and managing marine invasive species. *Mar. Ecol. Prog. Ser.* 511:209-221
- Long DJ, Sala E, Ballesteros E, Caselle JE, **Friedlander AM**, Klapfer A, Blum S, Constable HB. 2014. Summary of South American records of the smalltooth sand tiger shark *Odontaspis ferox* (Chondrichthyes: Odontaspidae), with the first record from Chilean waters. *Marine Biodiversity Records*. doi:10.1017/S1755267214000700; Vol. 7; e67.
- Parravicini V; Villéger S, McClanahan T, Arias Gonzalez J, Bellwood D, Belmaker J, Chabanet P, Floeter S, **Friedlander A**, Guilhaumon F, Vigliola L, Kulbicki M, Mouillot D. 2014. Global mismatch between species richness and vulnerability of reef fish assemblages. *Ecology Letters*. doi:10.1111/ele.12316
- Friedlander AM**, Stamoulis KA, Kittinger JN, Drazen J, Tissot BN. 2014. Understanding the scale of marine protection in Hawai'i: from community-based management to the remote northwestern Hawaiian Islands Marine National Monument. *Advances in Marine Biology*. Volume 69:153-203. <http://dx.doi.org/10.1016/B978-0-12-800214-8.00005-0>
- Friedlander AM**, Caselle JE, Ballesteros E, Brown EK, Turchik A, Sala E. 2014. The Real Bounty: Marine Biodiversity in the Pitcairn Islands. *PLoS ONE* 9(6):e100142. doi:10.1371/journal.pone.0100142

- Barneche D, Kulbicki M, Floeter S, **Friedlander A**, Maina J, Allen A. 2014. Scaling metabolism from individuals to reef-fish communities at broad spatial scales. *Ecology Letters*. doi: 10.1111/ele.12309
- Pittman SJ, Monaco ME, **Friedlander AM**, Legare B, Nemeth RS, Kendall MS, Poti M, Clark RD, Wedding LM, Caldwell C. 2014. Fish with chips: tracking reef fish movements to evaluate size and connectivity of Caribbean marine protected areas. *PLoS ONE* 9(5): e96028. doi:10.1371/journal.pone.0096028
- Mouillot D, Villeger S, Parravicini V, Kulbicki M, Arias-Gonzalez JE, Bender M, Chabanet P, Floeter SR, **Friedlander A**, Vigliola L, Bellwood DR. 2014. Functional over-redundancy and high functional vulnerability in global fish faunas of tropical reefs. *Proceedings of the National Academy of Sciences* 111:13757-13762. [Cover article].
- Freeman S, Rohwer F, D'Spain G, **Friedlander A**, Gregg A, Sandin S, Buckingham M. 2014. The origins of ambient biological sound from coral reef ecosystems in the Line Islands archipelago. *Journal of the Acoustical Society of America*. 135: 1775-1788.
- Friedlander AM**, Obura D, Aumeeruddy R, Ballesteros E, Church J, Cebrian E, Sala E. 2014. Coexistence of low coral cover and high fish biomass at Farquhar Atoll, Seychelles. *PLoS ONE* 9(1): e87359. doi:10.1371/journal.pone.0087359
- Longenecker K, Chan Y, Toonen R, Carlon D, Hunt T, **Friedlander A**, DeMartini E. 2014. How far has our baseline shifted? Archaeological evidence that pristine reefs are good proxy targets for modern fish populations. *Conservation Biology* 28:1322-1330. DOI: 10.1111/cobi.12287.
- Edwards CB, **Friedlander AM**, Green AG, Hardt MJ, Sala E, Sweatman HP, Williams ID, Zgliczynski B, Sandin SA, Smith JE. 2014. Global assessment of the status of coral reef herbivorous fishes: evidence for fishing effects. *Proceedings of the Royal Society B: Biological Sciences* 281, no. 1774 (2014): 20131835
- Toonen RJ, Wilhelm TA, Maxwell SM, Wagner D, Bowen BW, Sheppard CRC, Tai SM, Teroroko T, Moffitt R, Gaymer CF, Morgan L, Lewis N, Sheppard ALS, Parks J, **Friedlander AM**. 2013. One size does not fit all: The emerging frontier in large-scale marine conservation. *Marine Pollution Bulletin*, 77:7-10
- Wedding LM, **Friedlander AM**, Kittinger JN, Watling L, Gaines SD, Bennett M, Hardy SM, Smith CR. 2013. From principles to practice: a spatial approach to systematic conservation planning in the deep sea. *Proceedings of the Royal Society B: Biological Sciences* 2013 280: 20131684
- Parravicini V, Kulbicki M, Bellwood DR, **Friedlander AM**, Arias-Gonzalez JE, Chabanet P, Floeter SR, Myers R, Vigliola L, D'Agata S, Mouillot D. 2013. Global patterns and predictors of tropical reef fish species richness. *Ecography* 36: 1254–1262
- Kulbicki M, Parravicini V, Bellwood DR, Arias-Gonzales E, Chabanet P, Floeter SR, **Friedlander AM**, McPherson J, Myers RE, Vigliola L, Mouillot D. 2013. Global biogeography of reef fishes: a hierarchical quantitative delineation of regions. *PLoS ONE* 8(12): e81847. doi:10.1371/journal.pone.0081847
- Golbuu Y, **Friedlander A**. 2013. Using appropriate methods to answer a question, and the importance of understanding the question: A response to the rebuttal by Colin et al. (2013). *Estuarine, Coastal, and Shelf Science* 123: 7-9.
- Mumby PJ, Bejarano S, Golbuu Y, Steneck RS, Arnold SN, van Woesik R, **Friedlander AM**. 2013. Empirical relationships among resilience indicators on Micronesian reefs. *Coral Reefs* 32: 213-226.

- Friedlander AM**, JM Shackeroff, JN Kittinger. 2013. Customary marine resource knowledge and use in contemporary Hawai‘i. *Pacific Science*. 67(3):441-460
- Friedlander AM**, Ballesteros E, Beets J, Berkenpas E, Gaymer CF, Gorny M, Sala E. 2013. Effects of isolation and fishing on the marine ecosystems of Easter Island and Salas y Gómez, Chile. *Aquatic Conservation: marine and freshwater ecosystems*. 23:515-531
- Stamoulis KA, **Friedlander AM**. 2013. A seascape approach to investigating fish spillover across a marine protected area boundary in Hawai‘i. *Fisheries Research*. 144: 2–14
- Donovan MK, **Friedlander AM**, DeMartini EE, Donahue MJ, Williams ID, 2012. Demographic patterns in the peacock grouper (*Cephalopholis argus*), an introduced Hawaiian reef fish. *Envir. Biol. Fish.* 96(8): 981-994
- Friedlander AM**, BJ. Zgliczynski, E Ballesteros, O Aburto-Oropeza, A Bolaños, E Sala. 2012. The shallow-water fish assemblage of Parque Nacional Isla del Coco, Costa Rica: structure and patterns in an isolated, predator-dominated ecosystem. *Rev. Biol. Trop.* Vol. 60 (Suppl. 3): 321-338
- Sala E, Ballesteros E, Dendrinis P, Di Franco A, Ferretti F, Foley D, Frascchetti S, **Friedlander A**, and 19 others. 2012. The structure of Mediterranean rocky reef ecosystems across environmental and human gradients, and conservation implications. *PLoS ONE* 7(2): e32742. doi:10.1371/journal.pone.0032742
- Kelly, L.W., Barott, K.L., Dinsdale, E., **Friedlander, A.M.**, Nosrat, B., Obura, D., Sala, E., Sandin, S.A., Smith, J.E., Vermeij, M.J. and Williams, G.J., 2012. Black reefs: iron-induced phase shifts on coral reefs. *The ISME journal*, 6(3), p.638.
- DeMartini EE, Anderson TW, **AM Friedlander**, Beets JP. 2011. Predator biomass, prey density, and species composition effects on group size in recruit coral reef fishes. *Marine Biology* 158: 2437-2447
- Ruttenberg BI, Hamilton SL, Walsh SM, Donovan MK, **Friedlander A**, E DeMartini, E Sala, SA Sandin. 2011 Predator-induced demographic shifts in coral reef fish assemblages. *PLoS ONE* 6(6): e21062. doi:10.1371/journal.pone.0021062
- Mora C, Aburto-Oropeza O, yala Bocos A, Ayotte PM, Banks S, Bauman AG, Beger M, Bessudo S, Booth DJ, Brokovich E, Brooks A, Chabanet P, Cinner J, Cortés J, Cruz-Motta JJ, Cupul Magaña A, DeMartini E, Edgar GJ, Feary DA, Ferse SCA, **Friedlander A**, and 34 others. 2011. Global human footprint on the linkage between biodiversity and ecosystem functioning in reef fishes. *PLoS Biol* 9(4): e1000606. doi:10.1371/journal.pbio.1000606
- Wedding LM, CA Lepczyk, SJ Pittman, **AM Friedlander**, S Jorgensen. 2011. Quantifying seascape structure: extending terrestrial spatial pattern metrics to the marine realm. *Mar. Ecol. Prog. Ser.* 427:219-232.
- Golbuu Y, **A Friedlander**. 2010. Spatial and temporal characteristics of grouper aggregations in marine protected areas in Palau, western Micronesia. *Estuarine, Coastal, and Shelf Science*. 92:223-231.
- Friedlander AM**, SA Sandin, EE DeMartini, E Sala. 2010. Habitat-specific characterization of the fish assemblage at a piscivore-dominated, pristine atoll in the central Pacific. *Marine Ecology Progress Series* 410: 219–231.
- Barott KL, Caselle JE, Dinsdale EA, **Friedlander AM**, Maragos JE, Obura D, Rohwer FL, Sandin SA, Smith JE, Zgliczynski B. 2010. Natural history of the lagoon at Caroline/Millennium Atoll, Republic of Kiribati. *PLoS ONE* 5(6):e10950
- DeMartini EE, Anderson TW, Kenyon JC, Beets JP, **Friedlander AM**. 2010. Management implications of juvenile reef fish habitat preferences and coral susceptibility to stressors.

- Marine and Freshwater Research. 61:532-540.
- Papastamatiou YP, **Friedlander AM**, Caselle JE, Lowe CG. 2010. Longterm movement patterns and trophic ecology of blacktip reef sharks (*Carcharhinus melanopterus*) at Palmyra Atoll. *Journal of Experimental Marine Biology and Ecology* 386:94-102
- Boulon RH, Monaco ME, **Friedlander AM**, Caldow C, Christensen J, Rogers C, Beets J, Miller W, Hile SD. 2009. An ecological correction to marine reserve boundaries in the US Virgin Islands. *Proceedings of the 11th International Coral Reef Symposium*: 1074-1077.
- Monaco ME, **Friedlander AM**, Caldow C, Hile SD, Menza C, Boulon RH. 2009. Long-term monitoring of habitats and reef fish found inside and outside the US Virgin Islands Coral Reef. *Carib. J. Sci.* 45:338-347.
- Monaco ME, **Friedlander AM**, Hile SD, Pittman SJ, Boulon RH. 2009. The coupling of St. John, US Virgin Islands marine protected areas based on reef fish habitat affinities and movements across management boundaries. *Proceedings of the 11th International Coral Reef Symposium*, Vol. 2: 1029-1032.
- Papastamatiou YP, Caselle JE, **Friedlander AM**, Lowe CG. 2009. Distribution, size frequency, and sex ratios of blacktip reef sharks, *Carcharhinus melanopterus*, at Palmyra Atoll: a predator-dominated ecosystem. *J. Fish Biology* 75:647-654.
- Keller BD, Gleason DF, McLeod E, Woodley CM, Airame S, Causey BD, **Friedlander AM**, Grober-Dunsmore R, Johnson JE, Miller SL, Steneck R. 2009 Climate change, coral reef ecosystems, and management options for marine protected areas. *Environmental Management*. 44:1069-1088
- DeMartini EE, Zgliczynski BJ, Boland RC, **Friedlander AM**. 2009. Influences of wind-wave exposure on the distribution and density of recruit reef fishes at Kure and Pearl & Hermes atolls, Northwestern Hawaiian Islands. *Environmental Biology of Fishes* 85:319-332
- Paddack MJ, Reynolds JD, Aguilar C, Appeldoorn RS, Beets J, Burkett EW, Chittaro PM, Clarke K, Esteves R, Fonseca AC, Forrester GE, **Friedlander AM**, and 23 others. 2009. Recent region-wide declines in Caribbean reef fish abundance. *Current Biology* 19:590-595
- Papastamatiou YP, Caselle JE, Lowe CG, **Friedlander AM**. 2009. Scale dependent effects of habitat on movements and foraging strategies of blacktip reef sharks, *Carcharhinus melanopterus*, at Palmyra atoll: a predator dominated ecosystem. *Ecology* 90:996-1008
- Wedding L, **Friedlander AM**. 2008. Determining the influence of seascape structure on coral reef fishes in Hawaii using a geospatial approach. *Marine Geodesy* 31:246-266
- Williams ID, Walsh WJ, Schroeder RE, **Friedlander AM**, Richards BL, Stamoulis KA. 2008. Assessing the relative importance of fishing impacts on Hawaiian coral reef fish assemblages along regional-scale human population gradients. *Environmental Conservation* 35:261-272
- DeMartini EE, **Friedlander AM**, Sandin SA, Sala E. 2008. Differences in fish assemblage structure between fished and unfished atolls in the northern Line Islands, central Pacific. *Mar. Ecol. Prog. Ser.* 365:199-215.
- Wedding L, **Friedlander A**, McGranaghan M, Yost R, Monaco M. 2008. Using bathymetric LIDAR data to measure benthic habitat complexity associated with coral reef fishes. *Remote Sensing of Environment* 112:4159-4165
- Sandin SA, Smith JE, DeMartini, Dinsdale EA, Donner SD, **Friedlander AM**, Konotchick T, Malay M, Maragos JE, Obura D, Pantos O, Paulay G, Richie M, Rohwer F, Schroeder RE, Walsh S, Jackson JBC, Knowlton N, Sala E. 2008. Degradation of coral reef communities across a gradient of human disturbance. *PLoS ONE*. 2008; 3(2):e1548
- Friedlander AM**. 2008. The Northwestern Hawaiian Islands marine ecosystem: a unique global

- biodiversity hotspot. *Current: the journal of marine education* 24:12-18
- Friedlander AM.** 2008. The role of apex-predators in the coral reef ecosystem of the Northwestern Hawaiian Islands. *Current: the journal of marine education* 24:24-27.
- Friedlander AM, Brown EK, Monaco ME.** 2007. Defining reef fish habitat utilization patterns in Hawaii: comparisons between MPAs and areas open to fishing. *Marine Ecology Progress Series* 351:221-233.
- Friedlander AM, Brown EK, Monaco ME.** 2007. Coupling ecology and GIS to evaluate efficacy of marine protected areas in Hawaii. *Ecological Applications* 17:715-730.
- Monaco ME, **Friedlander AM, Caldow C, Christensen JD, Beets J, Miller J, Rogers C, Boulon R.** 2007. Characterizing reef fish populations and habitats within and outside the US Virgin Islands Coral Reef National Monument: a lesson in MPA design. *Fisheries Management and Ecology* 14:33-40.
- DeMartini EE, **Friedlander AM.** 2006. Predation, endemism, and related processes structuring shallow-water reef fish assemblages of the Northwestern Hawaiian Islands. *Atoll Research Bulletin* 543:237-256.
- Williams ID, Walsh WJ, Miyasaka A, **Friedlander AM.** 2006. Effects of rotational closure on coral reef fishes in the Waikiki_Diamond Head Fishery Management Area, Oahu, Hawaii. *Marine Ecology Progress Series* 310:139-149.
- DeMartini EE, **Friedlander AM, Holzwarth S.** 2005. Size at sex change in protogynous labroids, prey size distributions, and apex predator densities at NW Hawaiian atolls. 2005. *Marine Ecology Progress Series* 297:259-271.
- Garrison VH, Rogers CS, Beets J, **Friedlander AM.** 2004. The habitats exploited and the species trapped in a Caribbean island trap fishery. *Environ. Biol. Fish.* 71:247-260.
- DeMartini EE, **Friedlander AM.** 2004. Spatial pattern of endemism in shallow water reef fish populations of the Northwestern Hawaiian Island. *Mar. Ecol. Prog. Ser.* 271:281-296.
- Jokiel PL, Brown EK, **Friedlander A, Rodgers SK, Smith WR.** 2004. Hawaii Coral Reef Assessment and Monitoring Program: Spatial patterns and temporal dynamics in reef coral communities. *Pacific Science* 58 (2): 159-174
- Friedlander A, Sladek Nowlis J, Sanchez JA, Appeldoorn R, Usseglio P, McCormick C, Bejarano S, Mitchell-Chui A.** 2003. Designing effective marine protected areas in Seaflower Biosphere Reserve, Colombia, based on biological and sociological information. *Conservation Biology* 17:1769-1784.
- Friedlander AM, Brown EK, Jokiel PL, Smith WR, Rodgers KS.** 2003. Effects of habitat, wave exposure, and marine protected area status on coral reef fish assemblages in the Hawaiian archipelago. *Coral Reefs* 22:291-305.
- Appeldoorn RS, **Friedlander A, Sladek Nowlis J, Usseglio P.** 2003. Habitat connectivity in reef fish communities and marine reserve design in Old Providence-Santa Catalina, Colombia: Gulf and Caribbean Research 14(2): 61-78
- Friedlander AM, Ziemann DA.** 2003. Impact of hatchery releases on the recreational fishery for Pacific threadfin in Hawaii. *Fishery Bulletin.* 101:32-43.
- Friedlander AM, DeMartini EE.** 2002. Contrasts in density, size, and biomass of reef fishes between the Northwestern and the main Hawaiian Islands: the effects of fishing down apex predators. *Mar. Ecol. Prog. Ser.* 230:253-264.
- Friedlander A, Poepoe K, Poepoe K, Helm K, Bartram P, Maragos J, Abbott I.** 2002. Application of Hawaiian traditions to community-based fishery management. *Proc. 9th Inter. Coral Reef Symp. Vol. 2:*813-818.

- Friedlander AM**, Parrish JD, DeFelice RC. 2002. Ecology of the introduced snapper *Lutjanus kasmira* in the reef fish assemblage of a Hawaiian bay. *Journal of Fish Biology* 60:28-48.
- Friedlander AM**. 2001. Essential fish habitat and the effective design of marine reserves: applications for marine ornamental fishes. *Aquarium Sciences and Conservation* 3:135-150.
- Friedlander AM**, Boehlert GW, Field ME, Mason JE, Gardner JV, Dartnell P. 1999. Sidescan sonar mapping of benthic trawl tracks on the shelf and slope off Eureka, California. *Fishery Bulletin* 97(4): 786-801.
- Beets J, **Friedlander A**. 1999. Evaluation of a conservation strategy: a spawning aggregation closure for red hind, *Epinephelus guttatus*, in the Virgin Islands. *Environ. Biol. Fish.* 55:91-98.
- Friedlander AM**, Parrish JD. 1998. Temporal dynamics of the fish assemblage on an exposed shoreline in Hawaii. *Environ. Biol. Fish.* 53:1-18.
- Friedlander AM**, Parrish JD. 1998. Habitat characteristics affecting fish assemblages on a Hawaiian coral reef. *J. Exp. Mar. Biol. Ecol.* 224(1):1-30.
- Friedlander AM**, Parrish JD. 1997. Fisheries harvest and standing stock in a Hawaiian Bay. *Fish. Res.* 32(1):33-50.
- Friedlander AM**, Beets JP. 1997. Fisheries and life history characteristics of dwarf herring (*Jenkinsia lamprotaenia*) in the US Virgin Islands. *Fish. Res.* 31:61-72.
- Friedlander A.M.** 1995. The recreational fishery for blue marlin, *Makaira nigricans* (Pisces:Istiophoridae) in the U.S. Virgin Islands. *Fish. Res.* 22(3-4):163-173.
- Friedlander A**, Beets J, Tobias W. 1994. Effects of fish aggregating device design and location on fishing success in the U.S. Virgin Islands. *Bull. Mar. Sci.* 55(2): 592-601.
- Beets J, **Friedlander A**, Tobias W. 1994. Stock assessment of the coney, *Epinephelus fulvus*, in the U.S. Virgin Islands. *Proc. Gulf Carib. Fish. Instit.* 43:395-408.
- Friedlander A**, Contillo J. 1994. Results of recreational billfish tournaments in the Virgin Islands, 1983-89. *Proc. Gulf Carib. Fish. Instit.* 43:281-293.
- Beets J, **Friedlander A**. 1992. Assessment and management strategies for red hind, *Epinephelus guttatus*, in the U.S. Virgin Islands. *Proc. Gulf Carib. Fish. Instit.* 42:226-242.
- Feigenbaum D, **Friedlander A**, Bushing M. 1989. Feasibility of fish aggregating devices for fisheries in Puerto Rico. *Bull. Mar. Sci.*, 44(2):950-959.
- Friedlander A**. 1992. A comparison of fishing methods associated with fish aggregating devices (FADs) off Puerto Rico. *Proc. Gulf Carib. Fish. Instit.* 42:233-246.
- Friedlander A**, Beets J. 1992. The use of artificial habitats to enhance fisheries in the U.S. Virgin Islands. *Proc. Gulf Carib. Fish. Instit.* 41:233-246.
- Feigenbaum D, Bushing M, Woodward J, **Friedlander A**. 1989. Artificial reefs in Chesapeake Bay and nearby coastal waters. *Bull. Mar. Sci.*, 44(2):734-742.
- Friedlander A**. 1989. Fisheries development in the Kingdom of Tonga. *Fishbyte* 7(3): 17-20.
- Feigenbaum D, Blair C, **Friedlander A**, Bushing M. 1988. Determination of the feasibility of using fish aggregating devices (FADs) to enhance recreational and commercial fisheries in Puerto Rico. *Proc. Gulf Carib. Fish. Instit.* 39:218-229.

BOOK CHAPTERS AND ARTICLES

- Reyes-Bonilla H, Alvarado JJ, Smith F, Cortés J, Zapata F, Rivera F, Ayala-Bocos A, **Friedlander A**, ... Evie Wieters. 2021. Status and trends of coral reefs of the Eastern Tropical Pacific. In: *Status of Coral Reefs of the World: 2020* (Soutre D et al., eds.). Global Coral Reef Monitoring Network; International Coral Reef Initiative, Australian Institute of

Marine Science: Townsville, Australia. 2020.

- Friedlander AM.** 2020. El contexto global de las áreas marinas protegidas: logros, desafíos y direcciones futuras. *Boletín Antártico Chileno* 39(1):20-22
- Wagner D, Wilhelm TA, **Friedlander AM**, Pyle RL, Gjerde KM, Easton EE, Gaymer CF, Sellanes J, Brooks CM, van der Meer L, Georgian SE & Morgan LE (2021). Conservation on the high seas. In: D Wright & C Harder (eds.). *GIS for Science Volume 3 – Maps for Saving the Planet* (pp. 94-105). ESRI Press. DOI: <https://doi.org/10.17128/9781589486713>.
- Friedlander, AM.** and Brown. 2019. The Hawaiian Archipelago. Pages 713-741 in: *World Seas: an environmental evaluation. Volume II: The Indian Ocean to the Pacific. 2nd Edition* (C. Sheppard, ed.). Academic Press, London, UK.
- Parravicini, V., Mouillot, D., **Friedlander, A.M.** and Kulbicki, M., 2018. Geographic Variation in the Composition and Function of Parrotfishes. In *Biology of Parrotfishes* (pp. 225-254). CRC Press.
- Friedlander AM**, JM Shackeroff JM, JN Kittinger. 2016. Traditional marine resource use in contemporary Hawaii. Pages 177-193 in: *The rahui: legal pluralism in Polynesian traditional management of resources and territories* (T. Bambridge, ed.). Australian National University Press. Acton ACT 2601, Australia.
- Friedlander AM.** 2015. A perspective on the management of coral reef fisheries. Pages 208-214 In: *The ecology of fishes on coral reefs* (C Mora, ed.). Cambridge University Press.
- Usseglio P, Schuhbauer A, **Friedlander AM.** 2014. Collaborative approach to fisheries management as a way to increase the effectiveness of future regulations in the Galapagos archipelago. Pages 187-202 In: *The Galapagos marine reserve: a dynamic socio-ecological system.* (Vinueza L and Denking J, eds.). Springer International Publishing.
- Friedlander AM.**, Nowlis J, Koike H. 2015. Stock assessments using reference points and historical data: stock status and catch limits. Pages 91-118 In: *Applying Marine Historical Ecology to Conservation and Management: Using the Past to Manage for the Future* (JN Kittinger, LE McClenachan, K Gedan, LK Blight ed.). University of California Press.
- Raffaelli, D.G., **Friedlander, A.M.** 2012. Biodiversity and ecosystem functioning: an ecosystem-level approach. In *Marine Biodiversity Futures and Ecosystem Functioning: frameworks, methodologies and integration* (Paterson, D.M., Aspden, R.J., Solan, M., editors). Oxford Univ. Press. Pp 149-163.
- Grorud-Colvert K, Claudet J, Carr M, Caselle J, Day J, **Friedlander A**, Lester S, Lison de Loma T, Tissot B, Malone D. 2011. Networks – The assessment of marine reserve networks: Guidelines for ecological evaluation. Pages 293-321 In: *Marine protected areas: a multidisciplinary approach* (J Claudet, ed.). Cambridge University Press, Cambridge, UK.
- Friedlander, A.M.**, L.M. Wedding, J. E. Caselle, B. M. Costa. 2011. Integration of remote sensing and in situ ecology for the design and evaluation of marine protected areas: examples from tropical and temperate ecosystems. Pages 245-279 In: *Remote sensing of protected lands* (Y.Q. Wang, ed.). CRC Press, Boca Raton, Florida.
- Friedlander, A.M.** 2009. Marine protected areas. In: *Encyclopedia of Islands* (R. Gillespie and D.A. Clague, eds.). University of California Press. Pages 607-610.
- Grigg, R. W., J. Polovina, **A. Friedlander**, and S. Rohman. 2008. Pages 573-594 in: *Biology and paleoceanography of the coral reefs in the northwestern Hawaiian Islands.* In: *Coral reefs of the United States* (B. Riegl and R. Dodge, eds.). Springer-Verlag Publishing.
- Rogers, C.S., J. Miller, E.M. Muller, P. Edmunds, R.S. Nemeth, J.P. Beets, **A.M. Friedlander**, and 19 others. 2008. Ecology of coral reefs in the US Virgin Islands. Pages 303-374 in:

- Biology and paleoceanography of the coral reefs in the northwestern Hawaiian Islands. In: Coral reefs of the United States (B. Riegl and R. Dodge, eds.). Springer-Verlag Publishing.
- Maragos J., J. Miller, J. Grove, E. DeMartini, **A.M. Friedlander**, and 18 others. 2008. US coral reefs in the Line and Phoenix Islands, central Pacific Ocean: history, geology, oceanography, and biology. Pages 595-642 in: Biology and paleoceanography of the coral reefs in the northwestern Hawaiian Islands. In: Coral reefs of the United States (B. Riegl and R. Dodge, eds.). Springer-Verlag Publishing.
- Maragos, J., **A.M. Friedlander**, S. Godwin, C. Musburger, R. Tsuda, E. Flint, O. Pantos, P. Ayotte, E. Sala, S. Sandin, S. McTee, D. Siciliano, D. Obura. 2008. US coral reefs in the Line and Phoenix Islands, central Pacific Ocean: status, threats, and significance. Pages 643-655 in: Biology and paleoceanography of the coral reefs in the northwestern Hawaiian Islands. In: Coral reefs of the United States (B. Riegl and R. Dodge, eds.). Springer-Verlag Publishing.
- Friedlander, A.**, J. Caselle, J., Beets, C. Lowe, B. Bowen, T. Ogawa, K. Kelly, T. Calitri, M. Lange and B. Anderson. 2007. Aspects of the biology, ecology, and recreational fishery for bonefish at Palmyra Atoll National Wildlife Refuge, with comparisons to other Pacific Islands. Pages 28-56 in: Biology and management of the world's tarpon and bonefish fisheries (J. Ault, ed.). CRC Press, Boca Raton, Florida.
- Poepoe, K., P. Bartram, and **A. Friedlander**. 2007. The use of traditional Hawaiian knowledge in the contemporary management of marine resources. Pages 117-141 in: Fishers' knowledge in fisheries science and management (N. Haggan, B. Neis, and I. Baird, eds.). UNESCO, Paris.
- Sladek Nowles, J. and **A. M. Friedlander**. 2005. Marine reserve design and function for fisheries management. Pages 280-301 in: Marine conservation biology: the science of maintaining the sea's biodiversity (E. A. Norse and L. B. Crowder, eds.). Island Press.
- Sladek Nowles, J. and **A. M. Friedlander**. 2004. Research priorities and techniques. Pages 187-233 In: Marine Reserves; their science, design and use (J. Sobel and C. Dahlgren, eds.). Island Press. Washington, DC.
- Sladek Nowles, J. and **A. M. Friedlander**. 2004. Marine reserve design and designation process. Pages 128-163 In: Marine Reserves; their science, design and use (J. Sobel and C. Dahlgren, eds.). Island Press. Washington, DC.
- Friedlander, A.**, R.S. Appeldoorn and J. Beets. 1994. Spatial and temporal variations in stock abundance of queen conch, *Strombus gigas*, in the U.S. Virgin Islands. In "Queen Conch Biology, Fisheries and Mariculture" (R.S. Appeldoorn and B. Rodriguez, eds.). Fundacion Cientifica Los Roques, Caracas, Venezuela

Research Cruises and Expeditions (Chief Scientist*)

- 2024 Makira & Temotu, Solomon Islands, National Geographic Pristine Seas Project
- 2024 New Ireland, Papua New Guinea, National Geographic Pristine Seas Project*
- 2024 Republic of Palau, Southwest Islands, National Geographic Pristine Seas Project
- 2023 Northern Marshall Islands, National Geographic Pristine Seas Project*
- 2023 Return to Niue, National Geographic Pristine Seas Project*
- 2023 Resilience of the S. Line Islands, Kiribati. National Geographic Pristine Seas Project*
- 2023 Southern Maldives, National Geographic Pristine Seas Project*
- 2022 Dominica, National Geographic Pristine Seas Project*
- 2022 Arctic Canada, National Geographic Pristine Seas Project*

- 2022 Colombia's Pacific and Caribbean waters. National Geographic Pristine Seas Project*
- 2021 Southern Line Islands, Kiribati revisited. National Geographic Pristine Seas Project*
- 2020 Kawesqar Marine Park, Patagonia, Chile, National Geographic Pristine Seas Project*
- 2019 Osa Peninsula, Costa Rica, National Geographic Pristine Seas Project*
- 2019 Antarctic Peninsula, National Geographic Pristine Seas Project*
- 2018 Azores, Portugal, National Geographic Pristine Seas Project*
- 2018 Malpelo Island, Colombia, National Geographic Pristine Seas Project*
- 2018 Tierra del Fuego, Argentina, National Geographic Pristine Seas Project*
- 2017 Cape Horn, Chile, National Geographic Pristine Seas Project*
- 2017 Juan Fernandez Islands, Chile, National Geographic Pristine Seas Project*
- 2016 Niue, National Geographic Pristine Seas Project*
- 2016 Revillagigedo, Mexico, National Geographic Pristine Seas Project*
- 2016 Clipperton Atoll, National Geographic Pristine Seas Project*
- 2015 Galapagos, National Geographic Pristine Seas Project*
- 2015 Ilhas Selvagens, Portugal, National Geographic Pristine Seas Project*
- 2015 Southern Seychelles, National Geographic Pristine Seas Project*
- 2014 Republic of Palau, National Geographic Pristine Seas Project*
- 2014 Rapa and Marotiri, Austral Islands, French Polynesia, National Geographic Pristine Seas Project*
- 2014 Inhambane Province, Mozambique. National Geographic Pristine Seas Project*
- 2014 Juan Fernandez Archipelago, Chile. Oceana, South America*.
- 2013 Coral Sea and northern reefs, New Caledonia. National Geographic Pristine Seas Project*.
- 2013 Franz Josef Land, Russian Arctic. National Geographic Pristine Seas Project*
- 2013 Desventuradas Islands, Chile. National Geographic Pristine Seas Project*
- 2012 Gabon, National Geographic Pristine Seas Project*
- 2012 Pitcairn Islands marine protected area. National Geographic Pristine Seas Project*
- 2011 Salas y Gomez and Easter Island. National Geographic Pristine Seas Project*
- 2010 Demographics of reef fishes in the northern Line Islands, central Pacific. Scripps Institution of Oceanography
- 2009 Farquhar Atoll, Republic of the Seychelles. National Geographic Society*
- 2009 Pristine coral reefs in the southern Line Islands. National Geographic Society.
- 2009 Cocos Island, Costa Rica. National Geographic Society.
- 2008 Movement patterns and predator-prey dynamics at Palmyra and Kingman Atolls. International Game Fish Association.
- 2007 Comprehensive ecosystem assessment of Kingman Atoll: a pristine predator-dominated reef. Scripps Institution of Oceanography, San Diego State Univ., US Fish and Wildlife Service, NOAA Fisheries, Univ. Florida, Smithsonian Institute.
- 2005 Baselines and degradation of coral reefs in the Northern Line Islands. Scripps Institution of Oceanography, San Diego State Univ., US Fish and Wildlife Service, NOAA Fisheries, Univ. Florida, National Geographic Society
- 2004 Multibeam mapping and ecological assessment of deep-water reefs in the US Virgin Islands. NOAA Biogeography Branch, Center for Coastal and Ocean Mapping/Joint Hydrographic Center, U.S. Geological Survey, National Park Service, Virgin Islands Fish and Wildlife, Univ. Virgin Islands

- 2004 Rapid ecological assessment of US Phoenix Islands and Johnston Atoll. NOAA Fisheries, US Fish/Wildlife Service, Univ. Hawai'i, Boston University, Hawai'i Division of Aquatic Resources.
- 2002 Rapid ecological assessment of Northwestern Hawaiian Islands. NOAA Fisheries, NOAA National Marine Sanctuary Program, Hawai'i Division of Aquatic Resources, University of Hawai'i Manoa, University of Hawai'i Hilo.
- 2001 Rapid ecological assessment of Northwestern Hawaiian Islands. NOAA Fisheries, NOAA National Marine Sanctuary Program, Hawai'i Division of Aquatic Resources, University of Hawai'i Manoa, University of Hawai'i Hilo.
- 2000 Rapid ecological assessment of Northwestern Hawaiian Islands NOAA Fisheries, NOAA National Marine Sanctuary Program, Hawai'i Division of Aquatic Resources, University of Hawai'i Manoa, University of Hawai'i Hilo.
- 1989 Swordfish stock assessment in the US Virgin Islands. NOAA Fisheries, Virgin Islands Fish and Wildlife, Puerto Rico Department of Natural Resources.
- 1987 Deepwater assessment for golden crabs in the Gulf of Mexico using the submersible Johnson SeaLink. University of Florida, Florida Sea Grant, NOAA Fisheries.

PAPERS PRESENTED – (first author only)

- 2023 Moving forward with an eye toward the past: Models for US MPA success and recommendations for advancing 30x30 in the US. 5th International Marine Protected Area Congress. Vancouver, Canada. February.
- 2017 Understanding the scale of marine protection in Hawai'i: from community-based management to one of the world's largest marine protected areas. 4th International Marine Protected Area Congress. La Serena, Chile. September
- 2016 Human-induced gradients of reef fish decline in the Hawaiian Archipelago. 13th Inter. Coral Reef Symposium. Honolulu. June
- 2014 The science of pristine seas. World Parks Congress, Sydney, Australia, November.
- 2013 Understanding the scale of marine protection: from community-based management to pristine seas. Int. Marine Protected Area Congress III, Marseille, France. October.
- 2012 Top-down control of marine ecosystems. 12th International Coral Reef Symposium. Cairns, Australia. July (session co-chair).
- 2011 Lessons and recommendations in the site-based manual removal of an invasive coral reef fish. Int. Marine Conservation Congress. Victoria, Canada
- 2009 Efficacy of marine protected areas in the Hawaiian Archipelago: importance of size, habitat, and protection. Int. Marine Conservation Congress. Fairfax, Virginia.
- 2008 Complex ecological effects of fishing revealed using a new assemblage assessment tool that relies on a large unfished reference area. 11th International Coral Reef Symposium. Ft. Lauderdale, Florida
- 2008 Ecology and predator-prey dynamics of fishes at Palmyra Atoll NWR. 89th annual meeting of the American Association for the Advancement of Science Pacific Division, Waimea, Hawai'i
- 2007 Habitat quality, size, and management determine the effectiveness of MPAs in Hawai'i for biodiversity conservation and fisheries replenishment. Western Society of Naturalists. Ventura, California. (Plenary)
- 2006 Determining Fish Habitat Utilization Patterns and the Efficacy of Marine Protected Areas in Hawai'i via Integrated Coral Reef Ecosystem Mapping and Monitoring. 2006

- Ocean Sciences Meeting, Am. Soc. Lim. Ocean. Honolulu.
- 2005 Coupling Ecology and GIS Technology to Evaluate the Efficacy of Marine Protected Areas in Hawai'i. International Marine Protected Areas Congress. Geloong, Australia.
- 2004 Marine protected areas and community-based fisheries management in Hawai'i. 10th Inter. Coral Reef Symposium. Okinawa, Japan,
- 2002 Fishing down apex predators. Am. Fisheries Society Annual meeting. Baltimore, MD.
- 2002 Community-based fisheries management and marine protected areas in Hawai'i. 21st Annual Pacific Islands Environmental Conference. Republic of Palau.
- 2001 Wisdom of the moon calendar guides responsible fishing by a Hawaiian Homestead community. Putting Fishers' Knowledge to Work. University of British Columbia. Vancouver, B.C., Canada.
- 2001 Effects of habitat and management strategies on the efficacy of marine protected areas in the Hawaiian archipelago. 2nd Symposium on Marine Conservation Biology. San Francisco State University San Francisco, California.
- 2001 Validating traditional knowledge concerning the harvest of marine resources using the Hawaiian moon calendar. Building Bridges with Traditional Knowledge. Honolulu, Hawai'i.
- 2000 Application of Hawaiian traditions to community-based fishery management. 9th International Coral Reef Symposium. Bali, Indonesia.
- 2000 Contribution of hatchery releases to the recreational fishery for Pacific threadfin in Hawai'i. Aquaculture America Annual meeting. New Orleans.
- 1999 Essential fish habitat and effective design of marine reserves. First International Conference on marine Ornamentals. Kailua-Kona, Hawai'i.
- 1998 The role of habitat complexity in structuring coral reef fish assemblages. Mote Inter. Symposium on Essential Fish Habitat and Marine Reserves. Sarasota, Florida.
- 1997 Sidescan sonar mapping of benthic trawl tracks on the shelf and slope off Eureka, California. 10th Western Groundfish Conference. Asilomar, California. February.
- 1996 Fisheries harvest and standing stock in a Hawaiian bay. 8th International Coral Reef Symposium. Panama City, Panama.
- 1991 Effects of fish aggregating device design and location on fishing success in the U.S. Virgin Islands. Fifth International Conference on Artificial Habitats for Fisheries. Long Beach, California.
- 1991 Spatial and temporal variations in stock abundance of Queen Conch (*Strombus gigas*) in the U.S. Virgin Islands. 1st Latin American Malacology Congress, Caracas, Venezuela.
- 1990 Results of recreational billfish tournaments in the Virgin Islands, 1983-89. 43rd annual Gulf and Caribbean Fisheries Institute, Miami, Florida.
- 1989 A comparison of fishing methods associated with fish aggregating devices off Puerto Rico. 42nd annual Gulf and Caribbean Fisheries Institute, Ocho Rios, Jamaica.
- 1988 The use of artificial habitats to enhance fisheries in the U.S. Virgin Islands. 41st annual Gulf and Caribbean Fisheries Institute, St. Thomas, U.S. Virgin Islands.
- 1987 Fishing methods for FADs in Puerto Rico. Virginia Academy of Science annual meeting. Norfolk, Virginia.

INVITED PRESENTATIONS

- 2026 Life and times of the Napoleon Wrasse: Past, present, and future. Keynote Speaker at

- the ADEX Big Blue Legacy (Singapore Ocean Week). Singapore.
- 2024 Marine conservation in Oceania: Past, present, and future. A Resilient Pacific: Building Connections, Envisioning Solutions. Stanford Doerr School of Sustainability. Stanford University.
- 2023 Protecting vital places in the ocean for people and nature. Wen Family Chair in Conservation Public Lecture Series. University of Western Australia.
- 2023 The global expedition: saving vital places in the ocean. Université de la Polynésie française. Papeete, Tahiti, French Polynesia.
- 2023 Opportunities for biodiversity and food security in the Pacific. Distinguished Speaker Series. 5th International Marine Protected Area Congress. Vancouver, Canada.
- 2022 Pristine Seas Colombia, “Seaflower: Encuentro de Saberes, Comisión Colombiana del Océano. San Andres, Colombia
- 2020 Creating a marine protected area for the Western Antarctic Peninsula, Oxford University Polar Forum. Oxford, UK.
- 2017 MPAs and global change. Opening plenary panel. 4th International Marine Protected Area Congress. La Serena, Chile.
- 2017 Understanding the scale of marine protection. Palau International Coral Reef Center
- 2016 Understanding the scale of marine protection: 1 to 1 million km². ISPA - Instituto Universitário, Lisbon, Portugal.
- 2015 Pristine Seas: Saving the last wild places in the ocean. Universidad Católica del Norte, Coquimbo, Chile.
- 2015 Impacts to marine biodiversity in the South China Sea: a global perspective. East-West Center, Honolulu.
- 2014 The science of pristine seas. Tel Aviv University.
- 2013 Effects of fishing on Hawaiian coral reefs. Tel Aviv University.
- 2012 Pristine Seas. The Nature Conservancy of Hawai‘i. Honolulu.
- 2012 Understanding Hawai‘i's marine ecosystems: for traditional knowledge to remote sensing. Keynote talk at The University of Hawai‘i at Hilo Tropical Conservation Biology and Environmental Science Annual Symposium. Hilo.
- 2012 Shifting baselines and the future of global coral reef ecosystems. Keynote talk – Annual Meeting of the American Fisheries Society, East Carolina University Student Chapter.
- 2012 Evaluating marine protected areas using a seascape approach. East Carolina University Department of Biology Seminar.
- 2010 Coastal and marine spatial planning for Hawai‘i and the Pacific Islands. USGS Coastal and Marine Spatial Planning workshop for the western US. Sausalito, CA.
- 2009 A review of the paradigm shifts in our approaches to understanding and managing our ecosystems. NSF Virgin Islands EPSCOR Conference Keynote Address. Univ. of the Virgin Islands.
- 2009 Effects of fishing on coral reef ecosystems. US Geological Survey, Reston, VA.
- 2008 Criterios Para el Diseño de Areas Marinas Protegidas (MPAs): la Conservación de Biodiversidad y la Función del Ecosistema. Charles Darwin Research Station. Puerto Arroyo, Santa Cruz, Galapagos Islands
- 2008 Design criteria for marine protected areas: conserving biodiversity and ecosystem function. Universidad San Francisco de Quito, Ecuador
- 2008 Coral reef fisheries: lessons from the past, hope for the future. American Samoa Coral

- Reef Fisheries Workshop. Pago Pago, American Samoa
- 2008 US Pacific Remote Islands coral reefs ecosystems. Presidential Commission on Pacific Marine Conservation Areas. Honolulu, Hawai'i
- 2008 Overfishing of Caribbean and Pacific coral reefs and potential solutions. US Coral Reef Task Force. Kona, Hawai'i
- 2008 The state of Hawai'i's coral reefs. Leeward Community College. Pearl City, Hawai'i
- 2008 The complex effects of fishing on coral reefs: a tale of 2 oceans. Hawai'i Pacific University, Kaneohe, Hawai'i.
- 2007 Primer on the design of marine protected areas. Pew workshop on the design of marine protected areas for seamounts and the abyssal nodule province in Pacific high seas. East-West Center. Honolulu, Hawai'i.
- 2007 Declining coral reef fisheries resources and the efficacy of marine protected areas in the Hawaiian Archipelago. Department of Zoology, University of Hawai'i, Manoa.
- 2007 Biogeographic assessments, coral reef fish habitat utilization, and the effective design of marine protected areas. Palau International Coral Reef Center. Koror, Palau.
- 2006 Efficacy of MPAs and top-down control of coral reef ecosystems. Duke University Summer Program. Duke Marine Laboratory, Beaufort, North Carolina.
- 2006 Maintaining marine biodiversity and fisheries using place-based ecosystem management. University of Western Australia, Postgraduate Summer Program. Rotttnest Island, Western Australia.
- 2005 Marine protected area design and function for biodiversity conservation and fisheries management. Universidad de Las Palmas de Gran Canaria, Islas Canarias, Spain.
- 2003 Marine protected areas and community-based fisheries management in Hawai'i. Stanford University, Hopkins Marine Station Marine Conservation Biology Seminar Series. Pacific Grove, California.
- 2004 Designing Marine protected areas in Hawai'i for fisheries and conservation. University of California at Santa Barbara. Department of Ecology, Evolution, and Marine Biology.
- 2002 Using marine protected areas and community-based fisheries management to conserve biodiversity and enhance fisheries in Hawai'i. NOAA, National Ocean Service, Silver Springs, Maryland.
- 2001 Design and function of marine protected areas in Hawai'i and the US Caribbean. NOAA, National Ocean Service, Silver Springs, Maryland.
- 1999 Management of nearshore fisheries in Hawai'i. Facultad Recursos Del Mar, Universidad De Antofagasta, Chile.
- 1999 Coral reef ecosystem protection in Hawai'i and the US Virgin Islands. Third Meeting of the US Coral Reef Task Force. St. Croix, Virgin Islands.
- 1999 Impact of fishing and other extractive uses on coral reef ecosystems. Second Meeting of the U.S. Coral Reef Task Force. Maui, Hawai'i.
- 1988 Fisheries habitat enhancement in the Virgin Islands. University of the Virgin Islands St. Thomas, V.I.

PROFESSIONAL COMMITTEES AND WORKING GROUPS

- 2020- National Ocean Protection Coalition Scientific Advisory Team
- 2020 Hawai'i Coral Restoration Planning Advisory Committee
- 2017- Science Council for the Blue Parks Initiative

- 2011-14 French Foundation for Research on Biodiversity, Center for Synthesis and Analysis on Biodiversity - Modeling Species-Abundance
- 2007 US Global Climate Change Science Program – MPA Working Group
- 2007 - The Nature Conservancy of Hawai‘i – Board of Trustees Conservation Committee
- 2006- Global Coral Reef Monitoring Network – Regional Coordinator (Hawai‘i and US Pacific)
- 2005 - US Coral Reef Task Force Hawai‘i Fishing Local Action Strategy Steering Committee
- 2005 - Western Pacific Reg. Fisheries Management Council – MPA Working Group (Chair)
- 2002 - International Union for the Conservation of Nature Coral Reef Fishes Specialist Group
- 2002-04 National Park Service Pacific Marine Environment Working Group
- 2001-2 Hawai‘i Legislative Working Group on marine protected areas/marine managed areas
- 2000-02 Northwestern Hawaiian Islands Coral Reef Ecosystem Reserve Advisory Council
- 2000-03 NOAA Coral Reef Monitoring Working Group
- 1999 - Western Pacific Reg. Fisheries Management Council - Coral Reef Ecosystem Planning Team
- 1999-02 Marine steering committee, Secretariat for Conservation Biology, Univ. of Hawai‘i
- 1991- American Fisheries Society-Hawai‘i Chapter- President-(2002), Secretary (1999)

AWARDS

- 2016 - Crystal Compass National Award (to Pristine Seas) from Russian Geographical Society
- 2014 – Environmental Hero Award (to Pristine Seas Team) – Environmental Media Association
- 2002 - Hawai‘i Audubon Society Program Award
- 2002 - US Coral Reef Task Force Award for authorship of nationwide report on US coral reefs
- 1997 – National Research Council Post-Doctoral Fellowship

PUBLIC SERVICE

- 2025- Pacific Islands Heritage Coalition, Steering Committee, <https://protectpih.org/>
- 2024- OneReef, Science Advisory Board. <https://onereef.org/about-us/our-team/>
- 2024- Sanctuary Advisory Council. Hawaiian Islands Humpback Whale National Marine Sanctuary.
- 2017- Board of Trustees – The Nature Conservancy of Hawai‘i, Chair Conservation Committee
- 2012-14 Conservation International-Hawai‘i Fish Trust Community Stewardship Advisory Group
- 2012- Malama Pupukeya-Waimea Marine Life Conservation District Science Advisory Board
- 2011-14 Molokini Marine Life Conservation District Advisory Committee
- 2011- Hanalei Natural Heritage River Science Advisory Committee
- 2010-15 Maui Nui Coral Reef Recovery Team
- 2010-13 Maunalua Bay Science Advisory Committee

DOCUMENTARY FILMS

- 2024 – Return to Paradise, Niue, National Geographic Channel
- 2024 – Super Reefs, National Geographic Channel
- 2022 – Canoeros: Kawesqar Fjords of Chile. – Nat Geo Channel Latin America
- 2021 – Pristine Seas: The power of protection. - Nat Geo Wild
- 2020 – Antarctica – Virtual premier - <https://youtu.be/IZzHwQ9F3UA>
- 2018 – Wild Galapagos - National Geographic Channel
- 2019 – Yaganes, Southern Argentina - Nat Geo Channel Latin America
- 2019 – Azores, Portugal - Premiere in Ponta Delgada, São Miguel
- 2017 – Revillagigedo: Mexico’s wildest Seas - Nat Geo Channel Latin America
- 2017 – Clipperton: L’île de la Passion. Premiered in Paris

2017 – Niue: Fakaalofa Lahi Atu. National TV Australia & New Zealand
2017 – Cabo de Hornos: El Mar del Fin del Mundo. Nat Geo Channel Latin America
2017 – Tristan da Cunha – National Geographic Channel UK
2017 – Juan Fernandez – National Geographic Channel Latin America
2016 – Ilhas Selvagens – Premiered in Madeira and Lisbon. Running at Lisbon Oceanarium
2015 – Russia’s Far North: Franz Josef Land - Nat Geo Wild
2015 – Palau: Return to Paradise - National Geographic Channel
2015 – Rapa: The Spirit of Rahui - Premiered in Papeete, Tahiti
2014 – Desventuradas Islands: The Wild Islands of Chile - National TV Chile
2014 – Gabon: Africa’s Wild Coast - National Geographic Wild
2013 – Sharks of Lost Island - National Geographic Wild
2011 – The Lost Sharks of Easter Island - National Geographic Wild
2011 – Secrets of the Mediterranean: Cousteau’s Lost World - National Geographic Wild
2010 – Shark Island - National Geographic Wild
2009 – Journey to Shark Eden -Nat Geo Channel

Reviewer for professional journals

Aquatic Biology, Aquatic Conservation, Aquatic Living Resources, Biological Conservation, Conservation Biology, Conservation Letters, Current Biology, Diversity and Distributions, Ecology, Ecology Letters, Ecology, Ecological Applications, Ecological Monographs, Environmental Biology of Fishes, Environmental Conservation, Environmental Management, Estuarine and Coastal Shelf Sciences, Fishery Bulletin, Fisheries Research, Gulf and Caribbean Research, Hydrobiologia, ICES Journal of Marine Science, Journal of Coastal Research, Journal of Applied Ecology, Journal of Fish Biology, Marine Biology, Marine Ecology Progress Series, Marine and Freshwater Research, Marine Pollution Bulletin, Narien Environmental Research, Nature, Nature Communications, North American Journal of Fisheries Management, Pacific Science, Proceedings of the National Academy of Sciences, Proceedings of the Gulf and Caribbean Fisheries Institute, Proceedings of the Royal Society B, Reviews in Fisheries Science, Science, The Professional Geographer, Zoological Studies

REVIEWER FOR PROPOSALS AND PROGRAMS

National Science Foundation, National Geography Society, National Oceanographic and Atmospheric Administration (National Marine Fisheries Service, National Undersea Research Program, National Ocean Service-Coastal Oceans Program, National Ocean Service - Center for Coastal Monitoring and Assessment), Center for Tropical and Subtropical Aquaculture, University of Puerto Rico Sea Grant College Program, University of Hawai‘i Sea Grant Program.

PROFESSIONAL ORGANIZATIONS

American Fisheries Society, American Institute of Fishery Research Biologists, American Society of Ichthyologists and Herpetologists, Explorer’s Club, Gulf and Caribbean Fisheries Institute, Hawai‘i Academy of Science, International Society for Reef Studies, Organization of Tropical Fisheries Scientists, Royal Geographical Society, Sigma Xi, Society for Conservation Biology

LEGISLATIVE BRIEFINGS

2017 Hawai‘i State Senate Water and Land Committee – overfishing and marine conservation
2007 Hawai‘i State Senate Water and Land Committee – Declining marine resources and the

- need for spatial management in Hawai‘i.
- 2004 Hawai‘i State Senate Energy, Environment, and International Affairs Committee – Using marine protected areas in Hawai‘i to conserve and enhance coastal resources.
- 2003 Hawai‘i State Senate Energy, Environment, and International Affairs Committee – Theory and practice of marine protected areas: implications for Hawai‘i.
- 2002 Hawai‘i State House of Representatives Water, Land, & Ocean Resources Committee – Status of Hawai‘i coastal fisheries in the new millennium.

UNIVERSITY OF HAWAI‘I CLASSES TAUGHT

ZOOL 466 – Fisheries Science: This course is about the exploitation and management of marine fisheries throughout the world with special emphasis on Hawai‘i and other Pacific Islands. It combines a study of fishing techniques and methods, basic biological notions of the main exploited species and the statistics of their landings by volume and value. The concepts of fisheries population dynamics or stock assessment (growth, fishing effort, catchability, mortality, recruitment, and yield) will all be discussed. The course also examines important fisheries of the region (e.g., reef and tuna fisheries...) addressing biological, economic and social concerns and the interplay between them. Lectures will also focus on advanced topics in the ecology of marine ecosystems and the role of fishing in ecosystem function.

UNIVERSITY OF HAWAI‘I, GUEST LECTURER

Examining the scale of marine protections: From community-based management to the largest MPAs on Earth (PLAN 623/GEO 621, Coastal Planning and Management, Department of Urban and Regional Planning). Spring 2026

Coral reef fisheries and marine protected areas (Corals and coral reefs – Hunter 410), Spring 2019, 2020, 2021, 2022, 2023, 2024, 2025

Coral reef fishes, their fisheries, and marine protected areas (Corals and Coral Reefs – Biology 411) – 2019-25

Fish & fisheries in Hawai‘i (Nat. History Hawaiian Islands – Biology 450) –2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020

Ethnoecology of marine ecosystems (Biocultural Studies 710 – Dunn) –2011, 2014, 2015

Marine Ecology and Evolution (Zoology 301) – Spring 2010

Marine Protected Areas and Ecosystem-based Management (SOEST 699) – Fall 2008

Ocean Policy Seminar (SOEST 735) – Spring 2008

Coastal and Marine Geography (GEOG 765) – Fall 2006

Marine Conservation Biology (ZOOL Wilcox/Kinzie) – Spring 2005

Ecological Ethnobotany (BOT 444) – Spring 2003, Spring 2004, Spring 2005

Conservation Biology (ZOOL 770) – Spring 2003, Spring 2004, Fall 2009

Ocean Policy Seminar (SOEST 735) – Spring 1999

STUDENTS

Chair/Co-chair

Julien Magne - Ph.D. – University of Western Australia – Biology (Co-chair)

Ron Vave – Ph.D. – U. Hawai‘i – Marine Biology (Chair) (2021)

Chris Thompson – Ph.D. – University of Western Australia – Biology (Co-chair) (2020)

Naiti Morales – Ph.D. – Universidad Católica del Norte, Coquimbo, Chile (Co-chair) (2020)

Ignacio Petit – Ph.D. – Universidad Católica del Norte, Coquimbo, Chile (Co-chair) (2020)

Kosta Stamoulis – Ph.D. – Curtin University, Western Australia (Co-chair) (2019)
Mary Donovan – Ph.D. U. Hawai‘i – Biology (Chair) (2018)
Jonatha Giddens – Ph.D. – U. Hawai‘i – Biology (Chair) (2017)
Keith Kamikawa – M.S. – U. Hawai‘i. – Marine Biology (Chair) (2016)
Haruko Koike - Ph.D. - U. Hawai‘i – Zoology (Chair) (2016)
Alex Filous – M.S. – U. Hawai‘i – Biology (Chair) (2016)
Paolo Usseglio – Ph.D. - U. Hawai‘i – Zoology (Chair) (2015)
Eva Schemmel – Ph.D. U. Hawai‘i – Biology (Chair) (2015)
Whitney Goddell – M.S. – U. Hawai‘i – Marine Biology (Chair) (2015)
Kaylyn McCoy – M.S. - U. Hawai‘i – Biology (Chair) (2015)
Mary Donovan – M.S. – U. Hawai‘i – Zoology (Chair) (2012)
Bret Schumacher – Ph.D. – U. Hawai‘i – Zoology (Chair) (2011)
Tim Clark – Ph.D. – U. Hawai‘i – Zoology (Chair) (2010)
Naushad Yakub – MS – Univ. South Pacific – Marine Studies (Co-chair)

Committee member

Aviv Suan – Ph.D. - U. Hawai‘i - SOEST
Cameron Walsh – Ph.D. - U. Hawai‘i - SOEST
Rachel Dack – Ph.D – U. Hawai‘i – Biology (2018)
Rebecca Weible – MS – U. Hawai‘i – Zoology (2018)
Jade Delevaux – Ph.D – U. Hawai‘i – Nat. Res. Envir. Mangt. (2017)
Stephanie D’agata – Ph.D. - Universite’ Montpellier - Biodiversité Marine, Exploitation et Conservation (2015)
Kimberly Harding – MS – Hawai‘i Pacific University – Marine Science (2014)
Reagan Grant – Undergrad. Senior Thesis advisor (2013)
Jamie Gove – Ph.D. – U. Hawai‘i – Oceanography (2013)
Emma Kabua – M.S. – Hawai‘i Pacific University – Marine Science (2013)
Kosta Stamoulis – M.S. – U. Hawai‘i – Geography (2012)
Illy Iglesias – M.S. – U. Hawai‘i - Zoology (2012)
Lisa Wedding – Ph.D. – U. Hawai‘i – Geography (2011)
Kalisi Fa’anunu – M.S. – U. Hawai‘i Hilo – Tropical Conserv. Biology & Environ. Science (2011)
Brenda Asuncion – M.S. – Hawai‘i Pacific University – Marine Science (2009)
Elizabeth Macloud – M.S. – U. Hawai‘i – Geography (2007)
Lisa Wedding - MS – U. Hawai‘i - Geography (2006)

EXTERNAL EXAMINER

Aldo Turco – Ph.D. – Curtin University, Perth, Western Australia (2016)
Jean-Baptiste Juhel – Ph.D. – l’Universite de la Nouvelle-Caledonie (2016)
Brett Taylor – Ph.D. – James Cook University (2014)
Tim Alexander – Ph.D. – University of Tasmania (2010)
Kyle Ryan – Ph.D. – U. Western Australia (2008)
Brenton Chatfield – Ph.D. – U. Western Australia (2008)

UNIVERSITY COMMITTEES

Graduate Admissions Committee – U. Hawai‘i, Zoology – 2009-10

Ecology, Evolution, and Conservation Biology, U. Hawai'i, Graduate Education – 2001-02

LANGUAGES

Tongan - good (Foreign Service Institute score = 3+)

Spanish – conversational