Stanford



Fiorenza Micheli

David and Lucile Packard Professor of Marine Science, Professor of Oceans and Senior Fellow at the Woods Institute for the Environment

Bio

BIO

Fiorenza Micheli is the David and Lucile Packard Professor of Marine Science at Stanford University, chair of the Oceans Department in the Stanford Doerr School of Sustainability, co-director of Stanford's Center for Ocean Solutions, senior fellow at Woods Institute for the Environment, and Professor, by courtesy, in Biology. Her research focuses on the processes shaping marine communities and coastal social-ecological systems, incorporating this understanding in marine conservation and in co-designing solutions with decision-makers and communities. She investigates climatic impacts on marine ecosystems, marine predators' ecology and trophic cascades, the dynamics and sustainability of small-scale fisheries, and the design and function of Marine Protected Areas. She is a Pew Fellow in Marine Conservation, a fellow of the California Academy of Sciences, co-founder on board member of Ocean Visions, and advisor to the Monterey Bay National Marine Sanctuary, Seafood Watch, Global Fishing Watch, and the Benioff Ocean Science Laboratory.

ACADEMIC APPOINTMENTS

- Professor, Oceans
- Senior Fellow, Stanford Woods Institute for the Environment
- Senior Fellow, Stanford Woods Institute for the Environment

ADMINISTRATIVE APPOINTMENTS

- Chair, Oceans Department, SDSS, (2025-2028)
- Chair, Oceans Department, SDSS, (2022-2025)
- Co-director, Hopkins Marine Station, (2020-2022)
- Co-director, Center for Ocean Solutions, (2017- present)
- Senior Fellow, Woods Institute for the Environment, (2014- present)

PROGRAM AFFILIATIONS

- Center for Latin American Studies

LINKS

- Micheli Lab website: https://michelilab.stanford.edu/
- Center for Ocean Solutions: https://oceansolutions.stanford.edu/
- Oceans Department: https://sustainability.stanford.edu/school/departments/oceans
- Hopkins Marine Station: https://hopkinsmarinestation.stanford.edu

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My research focuses on the processes and interactions shaping coastal marine communities and incorporating this understanding in the management and conservation of marine ecosystems. A primary focus of my research program has been in how disturbance and interactions between species underlie the organization, spatial variation, and temporal change in marine communities. In addition to addressing these basic ecological questions, my research seeks to apply community ecology to increase our understanding of human impacts on the marine environment and to design conservation and restoration strategies. Examples include quantifying the joint effects of fishing and climate change on marine ecosystems and incorporating our understanding of diversity patterns, species interactions, habitat-species linkages, and patterns of human use of natural resources in the design and evaluation of marine reserve networks and marine zoning. I am currently co-directing the Stanford Center for Ocean Solutions, with Jim Leape.

To date, I have authored or co-authored over 200 peer-reviewed publications. I have advised over 20 postdocs, over 20 PhD students and nearly 100 undergraduate students at Stanford University. Currently my group includes four postdoctoral researchers and six PhD students conducting research in California, Baja California, Palau, The Chagos and Italy, and additional fellows and interns at COS. I have given over 300 presentations at conferences, symposia and at academic institutions, including ~150 invited presentations and ten lectures as the keynote speaker in international conferences. I have obtained grants from the US National Science Foundation, Environmental Protection Agency, NOAA, National Geographic Society, and private foundations, including funding for three large multi-institutional and interdisciplinary projects from the NSF – Coupled Natural-Human Systems program. I am a fellow of the California Academy of Science and the Aldo Leopold Leadership Program, past president of the Western Society of Naturalists, a Pew Fellow in Marine Conservation.

Teaching

COURSES

2026-27

- Ocean Solutions: Science, Policy, and Community-Engaged Learning: OCEANS 123H, OCEANS 223H (Spr)
- Planet Ocean: BIO 71, ESS 71, OCEANS 71 (Win)
- Scientific Communications: An Introduction: OCEANS 305 (Spr)

2025-26

- Catalyzing Solutions for a Sustainable Ocean: Learning with Local Communities: BIO 123, OCEANS 123H, OCEANS 223H (Spr)
- Oceans Exploration: Gulf of California: OCEANS 164H, OCEANS 264H (Spr)
- Planet Ocean: BIO 71, ESS 71, OCEANS 71 (Win)
- Scientific Communications: An Introduction: OCEANS 305 (Spr)

2024-25

- Catalyzing Solutions for a Sustainable Ocean: Learning with Local Communities: BIO 123, OCEANS 123H, OCEANS 223H (Spr)
- Integrative Ocean Study: ENGLISH 149, ENGLISH 249 (Win)
- Planet Ocean: BIO 71, ESS 71, OCEANS 71 (Win)
- Scientific Communications: An Introduction: OCEANS 305 (Spr)

2023-24

- Catalyzing Solutions for a Sustainable Ocean: Learning with Local Communities: BIO 123, OCEANS 123H, OCEANS 223H (Spr)
- Get to Know Your Oceans: OCEANS 300A (Aut)

- Planet Ocean: BIO 71, ESS 71, OCEANS 71 (Win)
- Scientific Communications: An Introduction: OCEANS 305 (Spr)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Kaikuliumaikalani kaholoaa

Postdoctoral Faculty Sponsor

Nur Arafeh Dalmau, Jeanine Brantschen, Veronica Frans, Alexy Khrizman, Yezi Yang

Doctoral Dissertation Advisor (AC)

Danny Collins, Ceyenna Tillman

Doctoral (Program)

Ceyenna Tillman

Publications

PUBLICATIONS

- **Rapid coral bleaching recovery via symbiont transfer from healthy corals.** *Science advances*
  Collins, D. S., Sipkova, J., Mollica, N. R., Rolander, T., Klepac, C. N., Calistro, G. F., Barone, V., Micheli, F., Palumbi, S. R.
  2026; 12 (42): eaeh1580
- **Predator-mediated trophic connectivity between reef and oceanic habitats in Palau.** *Ecological applications : a publication of the Ecological Society of America*
  Arnoldi, N. S., Carlisle, A., Dunbar, R. B., Friedlander, A. M., Golbuu, Y., Lindfield, S., Micheli, F.
  2026; 36 (6): e70284
- **An Integrated Oceanographic and Physiological Framework for Identifying Climate Refugia for Marine Invertebrates.** *Global change biology*
  Provost, M. M., de Leo, G., Woodson, B., Villanueva, M. R., Micheli, F.
  2026; 32 (9): e71091
- **Global patterns and regional insights into kelp forest protection, restoration, and stewardship** *JOURNAL OF APPLIED PHYCOLOGY*
  Eger, A. M., Verges, A., MehtaFalkland Islands, A., Pessarrodona, A., Mora-Soto, A., Bernal-Ibanez, A., Smorygo, A., Niese, A. M., Savard-Drouin, A., Carlson, A., Put, A., Falace, A., Power, et al
  2026
- **Identifying functional climate refugia of marine megafauna through analysis of functional diversity.** *Journal of environmental management*
  Gissi, E., McDevitt-Irwin, J. M., Santos, C. F., Kaschner, K., Kesner-Reyes, K. N., Hazen, E. L., Santoleri, R., Micheli, F.
  2026; 411: 130119
- **Identifying marine climate refugia to advance climate-smart conservation.** *Trends in ecology & evolution*
  Sanz-Martín, M., Olguín-Jacobson, C., Bolin, J. A., Quiles-Pons, C., Brito-Morales, I., García Molinos, J., Hidalgo, M., Alabia, I. D., Gissi, E., Provost, M. M., Micheli, F., Arafeh-Dalmau, N.
  2026
- **Persistent loss of animal diversity on a rocky shore over nine decades and across multiple investigators.** *PeerJ*
  Elahi, R., Micheli, F., Watanabe, J. M.
  2026; 14: e21099
- **Digital technologies and the study of adaptation in small-scale fisheries** *OCEAN & COASTAL MANAGEMENT*
  Villasenor-Derbez, J., Fernandez, R., Fulton, S., Hernandez-Velasco, A., Hernandez, T., Woodson, C., Cardenas, J., Deleo, G. A., Torre, J., Micheli, F.
  2026; 275
- **Unravelling Marine Benthic Functioning Shifts Under Ocean Acidification.** *Ecology letters*

Carlot, J., Comeau, S., Chiarore, A., Mirasole, A., Alliouane, S., Micheli, F., Hurd, C. L., Gattuso, J. P., Teixidó, N.
2026; 29 (4): e70376

- **A framework for co-creating knowledge across the ocean humanities and sciences** *NPJ OCEAN SUSTAINABILITY*
  Sherman, A., Shea, M. M., Barrie, F., Mcfarland, R., Palumbi, S. R., Micheli, F., Cohen, M.
  2026; 5 (1)
- **Governance Arrangements That Fit Social-Ecological Context Are Associated With Fishery Sustainability** *FISH AND FISHERIES*
  Nenadovic, M., Giron, A., Frawley, T., Munguia-vega, A., Pellowe, K. E., Ferrer, E., Gill, D., Gonzalez-mon, B., Johnson, A. F., Lindkvist, E., Micheli, F., Weaver, A. H., Aburto, et al
  2026
- **Recent changes in mussel beds following mass mortality of a keystone marine predator** *MARINE ECOLOGY PROGRESS SERIES*
  Chapuis, M., McDevitt-Irwin, J. M., Palmisciano, M., Elahi, R., Detrait, A., Gorum, O., Vogel, C., Chui, E., Haupt, A., Micheli, F.
  2026; 776: 21
- **Climate-resilient fisheries are more resilient in general** *NPJ OCEAN SUSTAINABILITY*
  Villasenor-Derbez, J., Lynham, J., Garibay-Toussaint, I., Narchi, N. E., O'connor, R., Olguin-Jacobson, C., DeLeo, G. A., Torre, J., Arafeh-Dalmau, N., Fulton, S., Woodson, C., Micheli, F.
  2025; 4 (1)
- **Monitoring Harmful Algal Blooms in the Southern California Current Using Satellite Ocean Color and In Situ Data** *JOURNAL OF MARINE SCIENCE AND ENGINEERING*
  Lee, M., Arrigo, K., Smith, A., Woodson, C., Lee, J., Micheli, F.
  2025; 13 (11)
- **Safe food: A human right amid climate change.** *Science (New York, N.Y.)*
  Knight, C. J., Burnham, T. L., Crowder, L. B., Eurich, J. G., Franz, N., Golden, C. D., Micheli, F.
  2025; 389 (6765): 1099
- **From Data Deficient to Big Data in Shark Conservation** *FISH AND FISHERIES*
  Ferretti, F., Jenrette, J., Moro, S., Butner, C., Fox, E., Haddock, S. D., Jorgensen, S. J., Hastie, T., Micheli, F.
  2025
- **Governing access and agency: cooperative and non-cooperative forms influence small-scale fisher livelihood vulnerability and adaptation** *ECOLOGY AND SOCIETY*
  Gladstone, F. J., Basurto, X., Frawley, T., Nadovic, M., Navarro, J., Rodriguez-Van Dyck, S., Weaver, A., Micheli, F., Torre, J., Leslie, H. M.
  2025; 30 (3)
- **Using dark diversity to disentangle the effects of protection and habitat quality on species diversity (vol 305, 111096, 2025)** *BIOLOGICAL CONSERVATION*
  Gavriel, T., Azzurro, E., Benedetti-Cecchi, L., Bertocci, I., Cai, L., Claudet, J., Di Franco, A., Frid, O., Guidetti, P., Kleitou, P., Kletou, D., Malamud, S., Micheli, et al
  2025; 307
- **Recovery mode: Marine protected areas enhance climate resilience of invertebrate species to marine heatwaves** *FUNCTIONAL ECOLOGY*
  Olguin-Jacobson, C., Arafeh-Dalmau, N., Early-Capistran, M., Kumagai, J. A., Schoeman, D. S., Espinoza Montes, J., Hernandez-Velasco, A., Martinez, R., Romero, A., Torre, J., Woodson, C., De Leo, G., Micheli, et al
  2025
- **Short and long-term exposure to ocean acidification in limpets from the Castello Aragonese vent systems (Ischia Island, Italy).** *Environmental research*
  Signorini, S. G., Munari, M., Crocetta, F., Moro, I., D'Aniello, I., Nigro, L., Micheli, F., Della Torre, C.
  2025: 121874
- **Using dark diversity to disentangle the effects of protection and habitat quality on species diversity** *BIOLOGICAL CONSERVATION*
  Gavriel, T., Azzurro, E., Benedetti-Cecchi, L., Bertocci, I., Cai, L., Claudet, J., Di Franco, A., Frid, O., Guidetti, P., Kleitou, P., Kletou, D., Malamud, S., Micheli, et al
  2025; 305
- **Global floating kelp forests have limited protection despite intensifying marine heatwave threats.** *Nature communications*

Arafeh-Dalmau, N., Villaseñor-Derbez, J. C., Schoeman, D. S., Mora-Soto, A., Bell, T. W., Butler, C. L., Costa, M., Dunga, L. V., Houskeeper, H. F., Lagger, C., Pantano, C., Del Pozo, D. L., Sink, et al

2025; 16 (1): 3173

- **Kelp forests as nursery and foundational habitat for reef fishes.** *Ecology*

  Pérez-Matus, A., Micheli, F., Konar, B., Shears, N., Low, N. H., Okamoto, D. K., Wernberg, T., Krumhansl, K. A., Ling, S. D., Kingsford, M., Navarrete-Fernandez, T., Ruz, C. S., Byrnes, et al

  2025; 106 (2): e70007

- **A Seascape Genomics Perspective on Restrictive Genetic Connectivity Overcoming Signals of Local Adaptations in the Green Abalone (Haliotis fulgens) of the California Current System.** *Ecology and evolution*

  Mares-Mayagoitia, J. A., Mejia-Ruiz, P., Lafarga-De la Cruz, F., Micheli, F., Cruz-Hernandez, P., De-Anda-Montanez, J. A., Hyde, J., Hernandez-Saavedra, N. Y., De Jesus-Bonilla, V. S., Vargas-Peralta, C. E., Flores-Morales, A. L., Pares-Sierra, A. F., Valenzuela-Quinonez, et al

  2025; 15 (2): e70913

- **Population structure and sub-legal catch in a California spiny lobster (Panulirus interruptus) fishery in Baja California, Mexico** *CANADIAN JOURNAL OF FISHERIES AND AQUATIC SCIENCES*

  Mansfield, E. J., Bracamontes, M., Schnurle, K., Wong, A., Micheli, F.

  2025

- **Reef shark population declines on remote Pacific reefs: inferences from multiple methods in a data-limited fishery** *MARINE ECOLOGY PROGRESS SERIES*

  Goodman, M. C., White, T. D., Kazdan, J. L., Bradley, D., Shivji, M., Casagrandi, R., Mari, L., Gatto, M., Eurich, J. G., Mccauley, D. J., O'Connor, R. J., De Leo, G. A., Micheli, et al

  2024; 751: 97-114

- **COVID-19 highlights the need to improve resilience and equity in managing small-scale fisheries.** *npj ocean sustainability*

  Mangubhai, S., Olguín-Jacobson, C., Charles, A., Cinner, J., de Vos, A., Graham, R. T., Ishimura, G., Mills, K. E., Naggea, J., Okamoto, D. K., O'Leary, J. K., Salomon, A. K., Rashid Sumaila, et al

  2024; 3 (1): 61

- **Marine Protected Areas That Preserve Trophic Cascades Promote Resilience of Kelp Forests to Marine Heatwaves.** *Global change biology*

  Kumagai, J. A., Goodman, M. C., Villaseñor-Derbez, J. C., Schoeman, D. S., Cavanuagh, K. C., Bell, T. W., Micheli, F., De Leo, G., Arafeh-Dalmau, N.

  2024; 30 (12): e17620

- **Protect kelp forests.** *Science (New York, N.Y.)*

  Arafeh-Dalmau, N., Olguín-Jacobson, C., Earle, S., Bello, M., Lagger, C., Mora-Soto, A., Pantano, C., Palacios, M., Barbosa, R. V., Fica-Rojas, E., Guajardo, E., Aburto-Oropeza, O., Eger, et al

  2024; 386 (6722): 629

- **Past and future impacts of marine heatwaves on small-scale fisheries in Baja California, Mexico** *COMMUNICATIONS EARTH & ENVIRONMENT*

  Villasenor-Derbez, J., Arafeh-Dalmau, N., Micheli, F.

  2024; 5 (1)

- **Combining the uncombinable: corporate memories, ethnobiological observations, oceanographic and ecological data to enhance climatic resilience in small-scale fisheries** *FRONTIERS IN MARINE SCIENCE*

  Garibay-Toussaint, I., Olguin-Jacobson, C., Woodson, C., Arafeh-Dalmau, N., Torre, J., Fulton, S., Micheli, F., O'Connor, R., Precoma-de la Mora, M., Hernandez-Velasco, A., Narchi, N. E.

  2024; 11

- **Coral reef recovery in a remote and large marine protected area is resilient to cascading trophic interactions** *BIOLOGICAL CONSERVATION*

  McDevitt-Irwin, J. M., Chapuis, M., Carlson, R., Meekan, M., Palmisciano, M., Roche, R., Taylor, B. M., Tietjen, K. L., Tillman, C., Micheli, F.

  2024; 298

- **Setting deeper baselines: kelp forest dynamics in California over multiple centuries** *REGIONAL ENVIRONMENTAL CHANGE*

  Selgrath, J. C., Carlton, J. T., Pearse, J., Thomas, T., Micheli, F.

  2024; 24 (3)

- **Sex-specific variation in species interactions matters in ecological communities.** *Trends in ecology & evolution*

Gissi, E., Goodman, M. C., Elahi, R., McDevitt-Irwin, J. M., Arnoldi, N. S., Arafeh-Dalmau, N., Knight, C. J., Olguín-Jacobson, C., Palmisciano, M., Tillman, C. M., De Leo, G. A., Micheli, F.

2024

- **Mind the Gap: A Review of Disjunctions in Coastal Marine Species** *INTEGRATIVE AND COMPARATIVE BIOLOGY*

  Pagowski, V., Micheli, F.

  2024

- **Temperature-dependent hypoxia tolerance of purple sea urchin Strongylocentrotus purpuratus across biogeography and ontogeny** *MARINE ECOLOGY PROGRESS SERIES*

  Duncan, M. I., Micheli, F., Marquez, J., Lowe, C. J., Hamilton, S. L., Sperling, E. A.

  2024; 739: 129-146

- **Shortened food chain length in a fished versus unfished coral reef.** *Ecological applications : a publication of the Ecological Society of America*

  Young, H. S., McCauley, F. O., Micheli, F., Dunbar, R. B., McCauley, D. J.

  2024: e3002

- **The Kelp Forest Challenge: A collaborative global movement to protect and restore 4 million hectares of kelp forests (Oct, 10.1007/s10811-023-03103-y, 2023)** *JOURNAL OF APPLIED PHYCOLOGY*

  Eger, A., Aguirre, J., Altamirano, M., Arafeh-Dalmau, N., Arroyo, N., Bauer-Civiello, A. M., Beas-Luna, R., Bekkby, T., Bellgrove, A., Bennett, S., Bernal, B., Blain, C. O., Boada, et al

  2024

- **Salmon shark seasonal site fidelity demonstrates the influence of scale on identifying potential high-use areas and vulnerabilities** *MARINE ECOLOGY PROGRESS SERIES*

  Arnoldi, N. S., Carlisle, A. B., Andrzejaczek, S., Castleton, M. R., Micheli, F., Schallert, R. J., White, T. D., Block, B. A.

  2024; 735: 125-140

- **Growth of juvenile red abalone (Haliotis rufescens) co-cultivated with two densities of warty sea cucumber (Apostichopus parvimensis)** *NEW ZEALAND JOURNAL OF MARINE AND FRESHWATER RESEARCH*

  Bauer, J., Beas-Luna, R., Searcy-Bernal, R., Micheli, F., Vazquez-Vera, L., Boch, C., Carpizo-Ituarte, E., Lafarga-De la Cruz, F., Montano-Moctezuma, G., Lorda, J.

  2024

- **Self-governance mediates small-scale fishing strategies, vulnerability and adaptive response** *GLOBAL ENVIRONMENTAL CHANGE-HUMAN AND POLICY DIMENSIONS*

  Frawley, T. H., Gonzalez-Mon, B., Nenadovic, M., Gladstone, F., Nomura, K., Zepeda-Dominguez, J., Rodriguez-Van Dyck, S., Ferrer, E. M., Torre, J., Micheli, F., Leslie, H. M., Basurto, X.

  2024; 84

- **Social-ecological vulnerability to environmental extremes and adaptation pathways in small-scale fisheries of the southern California Current** *FRONTIERS IN MARINE SCIENCE*

  Micheli, F., Saenz-Arroyo, A., Aalto, E., Beas-Luna, R., Boch, C. A., Cardenas, J., De Leo, G. A., Diaz, E., Espinoza-Montes, A., Finkbeiner, E., Freiwald, J., Fulton, S., Hernandez, et al

  2024; 11

- **Functional changes across marine habitats due to ocean acidification.** *Global change biology*

  Teixidó, N., Carlot, J., Alliouane, S., Ballesteros, E., De Vittor, C., Gambi, M. C., Gattuso, J. P., Kroeker, K., Micheli, F., Mirasole, A., Parravacini, V., Villéger, S.

  2024; 30 (1): e17105

- **Functional changes across marine habitats due to ocean acidification** *GLOBAL CHANGE BIOLOGY*

  Teixido, N., Carlot, J., Alliouane, S., Ballesteros, E., De Vittor, C., Gambi, M., Gattuso, J., Kroeker, K., Micheli, F., Mirasole, A., Parravacini, V., Villeger, S.

  2024; 30 (1)

- **Seascape genomics of the pink abalone (Haliotis corrugata): An insight into a cross-border species in the northeast Pacific coast.** *The Journal of heredity*

  Mares-Mayagoitia, J. A., Lafarga-De la Cruz, F., Micheli, F., Cruz-Hernandez, P., de-Anda-Montanez, J. A., Hyde, J., Hernandez-Saavedra, N. Y., Mejia-Ruiz, P., De Jesus-Bonilla, V. S., Vargas-Peralta, C. E., Valenzuela-Quinonez, F.

  2023

- **Dynamic interplay: disentangling the temporal variability of fish effects on coral recruitment.** *Scientific reports*
  McDevitt-Irwin, J. M., McCauley, D. J., Brumbaugh, D. R., Elmer, F., Ferretti, F., White, T. D., Wible, J. G., Micheli, F.
  2023; 13 (1): 20971

- **Integrating climate adaptation and transboundary management: Guidelines for designing climate-smart marine protected areas** *ONE EARTH*
  Arafeh-Dalmau, N., Munguia-Vega, A., Micheli, F., Vilalta-Navas, A., Villasenor-Derbez, J., Precoma-de la Mora, M., Schoeman, D. S., Medellin-Ortiz, A., Cavanaugh, K. C., Sosa-Nishizaki, O., Burnham, T. L. U., Knight, C. J., Woodson, et al
  2023; 6 (11): 1523-1541

- **The Kelp Forest Challenge: A collaborative global movement to protect and restore 4 million hectares of kelp forests** *JOURNAL OF APPLIED PHYCOLOGY*
  Eger, A., Aguirre, J., Altamirano, M., Arafeh-Dalmau, N., Arroyo, N., Bauer-Civiello, A. M., Beas-Luna, R., Bekkby, T., Bennett, S., Bernal, B., Blain, C. O., Boada, J., Branigan, et al
  2023

- **Exploring climate-induced sex-based differences in aquatic and terrestrial ecosystems to mitigate biodiversity loss.** *Nature communications*
  Gissi, E., Schiebinger, L., Hadly, E. A., Crowder, L. B., Santoleri, R., Micheli, F.
  2023; 14 (1): 4787

- **Oxygen availability and body mass modulate ectotherm responses to ocean warming.** *Nature communications*
  Duncan, M. I., Micheli, F., Boag, T. H., Marquez, J. A., Deres, H., Deutsch, C. A., Sperling, E. A.
  2023; 14 (1): 3811

- **Vulnerability of blue foods to human-induced environmental change** *NATURE SUSTAINABILITY*
  Cao, L., Halpern, B. S., Troell, M., Short, R., Zeng, C., Jiang, Z., Liu, Y., Zou, C., Liu, C., Liu, S., Liu, X., Cheung, W. W. L., Cottrell, et al
  2023

- **Consumers decrease variability across space and turnover through time during coral reef succession.** *Oecologia*
  McDevitt-Irwin, J. M., McCauley, D. J., Brumbaugh, D. R., Elmer, F., Ferretti, F., Joyce, F. H., White, T. D., Wible, J. G., Micheli, F.
  2023

- **Sex analysis in marine biological systems: insights and opportunities** *FRONTIERS IN ECOLOGY AND THE ENVIRONMENT*
  Gissi, E., Schiebinger, L., Santoleri, R., Micheli, F.
  2023

- **Multi-taxa marine isoscapes provide insight into large-scale trophic dynamics in the North Pacific** *PROGRESS IN OCEANOGRAPHY*
  Arnoldi, N. S., Litvin, S. Y., Madigan, D. J., Micheli, F., Carlisle, A.
  2023; 213

- **Four ways blue foods can help achieve food system ambitions across nations.** *Nature*
  Crona, B. I., Wassenius, E., Jonell, M., Koehn, J. Z., Short, R., Tigchelaar, M., Daw, T. M., Golden, C. D., Gephart, J. A., Allison, E. H., Bush, S. R., Cao, L., Cheung, et al
  2023

- **Exploring multiple stressor effects with Ecopath, Ecosim, and Ecospace: Research designs, modeling techniques, and future directions.** *The Science of the total environment*
  Stock, A., Murray, C. C., Gregr, E., Steenbeek, J., Woodburn, E., Micheli, F., Christensen, V., Chan, K. M.
  2023: 161719

- **Comparing spatial patterns of marine vessels between vessel-tracking data and satellite imagery** *FRONTIERS IN MARINE SCIENCE*
  Nakayama, S., Dong, W., Correro, R. G. G., Selig, E. R. R., Wabnitz, C. C. C., Hastie, T. J. J., Leape, J., Yeung, S., Micheli, F.
  2023; 9

- **Marine protected areas' positive effect on fish biomass persists across the steep climatic gradient of the Mediterranean Sea** *JOURNAL OF APPLIED ECOLOGY*
  Frid, O., Malamud, S., Di Franco, A., Guidetti, P., Azzurro, E., Claudet, J., Micheli, F., Yahel, R., Sala, E., Belmaker, J.
  2023

- **Priorities for synthesis research in ecology and environmental science** *ECOSPHERE*

Halpern, B. S., Boettiger, C., Dietze, M. C., Gephart, J. A., Gonzalez, P., Grimm, N. B., Groffman, P. M., Gurevitch, J., Hobbie, S. E., Komatsu, K. J., Kroeker, K. J., Lahr, H. J., Lodge, et al
2023; 14 (1)

- **Shortfalls in the protection of persistent bull kelp forests in the USA** *BIOLOGICAL CONSERVATION*
  Arafeh-Dalmau, N., Olguin-Jacobson, C., Bell, T. W., Micheli, F., Cavanaugh, K. C.
  2023; 283

- **Data-poor ecological risk assessment of multiple stressors** *Ecological Informatics*
  Grewelle, R. E., Mansfield, E., Micheli, F., De Leo, G.
  2023

- **Linking multiple stressor science to policy opportunities through network modeling** *MARINE POLICY*
  Wedding, L. M., Green, S. J., Reiter, S., Arrigo, K. R., Hazen, L., Ruckelshaus, M., van der Grient, J. A., Bailey, R. M., Cameron, M. A., Leape, J., Levi, M., Merkl, A., Mills, et al
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