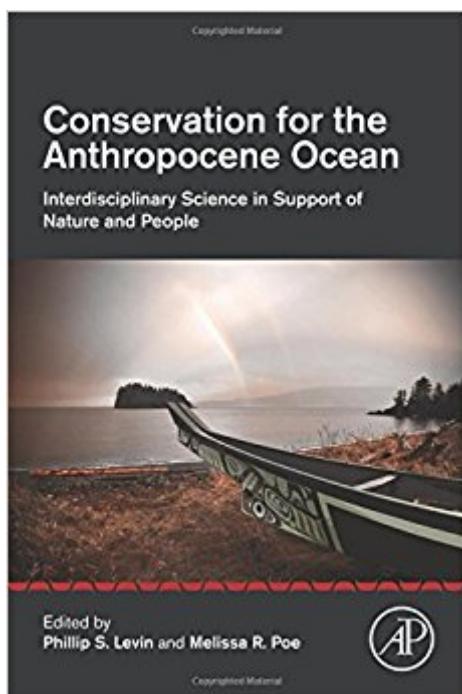


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Conservation For The Anthropocene Ocean: Interdisciplinary Science In Support Of Nature And People



Synopsis

Conservation for the Anthropocene Ocean: Interdisciplinary Science in Support of Nature and People emphasizes strategies to better connect the practice of marine conservation with the needs and priorities of a growing global human population. It conceptualizes nature and people as part of shared ecosystems, with interdisciplinary methodologies and science-based applications for coupled sustainability. A central challenge facing conservation is the development of practical means for addressing the interconnectedness of ecosystem health and human well-being, advancing the fundamental interdisciplinary science that underlies conservation practice, and implementing this science in decisions to manage, preserve, and restore ocean ecosystems.

Though humans have intentionally and unintentionally reshaped their environments for thousands of years, the scale and scope of human influence upon the oceans in the Anthropocene is unprecedented. Ocean science has increased our knowledge of the threats and impacts to ecological integrity, yet the unique scale and scope of changes increases uncertainty about responses of dynamic socio-ecological systems. Thus, to understand and protect the biodiversity of the ocean and ameliorate the negative impacts of ocean change on people, it is critical to understand human beliefs, values, behaviors, and impacts. Conversely, on a human-dominated planet, it is impossible to understand and address human well-being and chart a course for sustainable use of the oceans without understanding the implications of environmental change for human societies that depend on marine ecosystems and resources. This work therefore presents a timely, needed, and interdisciplinary approach to the conservation of our oceans. Helps marine conservation scientists apply principles from oceanography, ecology, anthropology, economics, political science, and other natural and social sciences to manage and preserve marine biodiversity. Facilitates understanding of how and why social and environmental processes are coupled in the quest to achieve healthy and sustainable oceans. Uses a combination of expository material, practical approaches, and forward-looking theoretical discussions to enhance value for readers as they consider conservation research, management and planning.

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Customer Reviews

Phillip Levin is the lead scientist of The Nature Conservancy, Washington and a Professor-of-Practice in the School of Environmental and Forest Sciences at the University of Washington. Dr. Levin is a conservation scientist who is interested in bridging the gaps between theory and practice in conservation, and developing modeling and statistical approaches to inform conservation and management of marine ecosystems. The main focus of his current work is developing interdisciplinary tools to inform conservation of marine, aquatic and terrestrial ecosystems and the communities that depend on them. Prior to joining the Nature Conservancy and University of Washington, he was a Senior Scientist at NOAA Fisheries' Northwest Fisheries Science Center in Seattle, WA, USA. Levin served as the scientific lead of NOAA's Integrated Ecosystem Assessment efforts in the California Current Large Marine Ecosystem and Puget Sound. In the course of this work, he has led the development of new analytical tools for characterizing ecosystem health and forecasting the cumulative effects of coastal zone management and climate change on marine ecosystems. Dr. Levin received the Department of Commerce Silver Award and NOAA's Bronze Medal for his work on marine ecosystems, and the Seattle Aquarium's Conservation Research Award for his work in Puget Sound. He has published over 150 scientific papers in peer-reviewed journals, book chapters and technical reports, and edited the forthcoming book, "Conservation of the Anthropocene Ocean: interdisciplinary approaches for nature and people". His work has been featured in such news outlets as NPR, PBS, the BBC, MSBNC, The Economist, among others. Levin recently served as President of the Western Society of Naturalists, and has served on numerous editorial boards and scientific advisory panels. Levin received his Ph.D. in zoology from the University of New Hampshire in 1993 and was a postdoctoral fellow at the University of North Carolina. Melissa Poe is a Social Scientist at the University of Washington Sea Grant Program and a liaison with NOAA's Northwest Fisheries Science Center. Dr. Poe is trained as an environmental anthropologist, with

interests in applying political ecology and cultural geography approaches to environmental problems through participatory research. Poe earned her masters and doctorate at the University of Washington, focusing on community-based conservation, ethnoecology, and resource-based livelihoods, with extensive field work throughout Pacific North America. Poe holds double Bachelor's degrees in Sociology and Spanish, and was a postdoc fellow at the Institute for Culture and Ecology. Ongoing efforts include contributing social science to NOAA's Integrated Ecosystem Assessment, advising the Puget Sound Partnership science panel, and collaborating with the National Center for Ecological Analysis and Synthesis and other interdisciplinary initiatives.

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